



047451)

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May 10, 2017

Reference No. 038443-111

Ms. Leslie Patterson
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United States Environmental Protection Agency
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Ms. Madelyn Adams
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Mr. Steve Renninger
On-Scene Coordinator
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Emergency Response Branch
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45268

Dear Ms. Patterson, Ms. Adams, and Mr. Renninger:

**Re: Progress Report: April 1 through 30, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of April 1 through 30, 2017.

The next Progress Report for the month of May 2017 will be submitted on or before June 10, 2017.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

GHD and Respondents reviewed USEPA comment letters dated February 24 and March 1, 2017, and prepared revisions to the *Draft Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2*, dated July 26, 2016. GHD submitted the revised *RI/FS Work Plan for Operable Units 1 and 2* to USEPA and Ohio EPA on May 1, 2017.

Removal Action ASAOC Developments

There were no developments for the period of April 1 to April 30, 2017.

Summaries of all Anticipated Problems and Planned Resolutions

No problems were encountered during the reporting month and none are currently anticipated.

Projected Work for the Next Reporting Period

- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.
- Implementation of the *Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2*, dated May 1, 2017 following agency review and approval.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward".

Julian Hayward

VC/cb/11

cc: (all by pdf) Ken Brown, ITW
 Bryan Heath, NCR
 Wendell Barner, Barner Consulting
 Jim Campbell, EMI
 Scott Blackhurst, Kelsey Hayes Company
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 Steve Quigley, GHD



June 9, 2017

Reference No. 038443-111

Ms. Leslie Patterson
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Dear Ms. Patterson, Ms. Adams, and Mr. Renninger:

**Re: Progress Report: May 1 through 31, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of May 1 through 31, 2017.

The next Progress Report for the month of June 2017 will be submitted on or before July 10, 2017.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

GHD and Respondents provided USEPA with the revised *RI/FS Work Plan for Operable Units 1 and 2* and a *Response to United States Environmental Protection Agency (USEPA) Comments: Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2*, dated May 1, 2017. The documents were provided electronically (via download from GHD's system) to USEPA and Ohio EPA on May 1, 2017, and hard copies were provided on May 2, 2017.

On May 4, 2017, GHD provided USEPA and Ohio EPA with a redline version of the RI/FS Work Plan including DQO Tables 5.1 to 5.5, as requested.

Removal Action ASAOC Developments

There were no developments for the period of May 1 to May 31, 2017 with the following exception. GHD made a repair to EP-3 stemline piping at Globe Equipment (Building 24) on May 24, 2017, after being notified by the owner of breakage due to forklift operation.

Summaries of all Anticipated Problems and Planned Resolutions

No problems were encountered during the reporting month and none are currently anticipated.

Projected Work for the Next Reporting Period

- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.
- Implementation of the *Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2*, dated May 1, 2017, following agency review and approval.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

VC/wg/12

cc: (all by pdf) Ken Brown, ITW

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Brett Fishwild, CH2M Hill

Valerie Chan, GHD

Steve Quigley, GHD



July 10, 2017

Reference No. 038443-111

Ms. Leslie Patterson
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45268

Dear Ms. Patterson, Ms. Adams, and Mr. Renninger:

**Re: Progress Report: June 1 through 30, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of June 1 through 30, 2017.

The next Progress Report for the month of July 2017 will be submitted on or before August 10, 2017.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

On June 15, 2017, GHD and Respondents provided USEPA with a revision of the text of the *RI/FS Work Plan for Operable Units 1 and 2*, containing edits associated with the Site history discussion, based on further review of available documents.

On June 19, 2017, GHD and Respondents notified USEPA of apparent unauthorized Site access based on observations made by GHD field staff during the previous week. This included an unknown lock on the access gate and apparent of ground/ vegetation disturbance near the Quarry Pond. GHD also notified the Site owner representative (Mark Fornes). GHD plans to inspect existing signage to determine if upgrades are needed.

USEPA provided comments on the *RI/FS Work Plan for Operable Units 1 and 2* dated May 1, 2017, via e-mail correspondence dated June 28, 2017.

Removal Action ASAOC Developments

On June 12 and 13, 2017, GHD completed quarterly inspections at all buildings with an operating sub-slab depressurization system (SSDS). During the inspection all blowers were operational and were maintaining vacuum. Acceptable vacuum response was recorded at the sub-slab probes with minor exceptions for Building 8 (B&G Trucking), consistent with previous data.

On June 13, 2017, GHD and Respondents notified United States Environmental Protection Agency (USEPA) that annual proficiency sampling is scheduled to be completed from July 10th to 14th at Buildings 8 and 9 (B&G Trucking), 12 (Overstreet Painting and S&J Precision), 14 (NexGen Vending), and 15 (SIM Trainer), in accordance with Addendum 4 of the VI Mitigation Work Plan.

Summaries of all Anticipated Problems and Planned Resolutions

No problems were encountered during the reporting month and none are currently anticipated.

Projected Work for the Next Reporting Period

- Review USEPA comments on the *Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2*, and provide responses and work plan revisions.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.
- Completion of annual proficiency sampling at Buildings 8 and 9 (B&G Trucking), 12 (Overstreet Painting and S&J Precision), 14 (NexGen Vending), and 15 (SIM Trainer) from July 10 to 14, 2017.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

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Julian Hayward

VC/ks/13

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Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, CH2M Hill
Valerie Chan, GHD
Steve Quigley, GHD



October 10, 2017

Reference No. 038443-111

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Dear Ms. Patterson, Ms. Adams, and Mr. Renninger:

**Re: Progress Report: September 1 through 30, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of September 1 through 30, 2017.

The next Progress Report for the month of October 2017 will be submitted on or before November 10, 2017.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

On September 20, 2017, GHD submitted the final RI/FS Work Plan for Operable Units 1 and 2 and associated material to USEPA and Ohio EPA, including the following: electronic link to download the Work Plan (PDF); responses to the USEPA's June 28, 2017 comments on the revised RI/FS Work Plan for Operable Units 1 and 2; and the final Work Plan report text marked-up with redline to show changes made since August 3, 2017.

On September 22, 2017, USEPA provided approval of the RI/FS Work Plan for Operable Units 1 and 2, dated September 20, 2017.

Removal Action ASAOC Developments

On September 27, 2017, GHD completed quarterly inspections of all buildings with an operating sub-slab depressurization system (SSDS). During the inspection all blowers were operational and were maintaining acceptable vacuum. During the inspection it was noted that the EP-2 main gauge in Building 8 (B&G Trucking) was damaged, and the EP-1 pump house at Building 17 (Megacity Construction) was cracked/damaged along the south side of the building. None of these items affect the operation of the vacuum systems. GHD will initiate repairs as needed in advance of the next inspection (scheduled for December 2017).

Summaries of all Anticipated Problems and Planned Resolutions

No problems were encountered during the reporting month and none are currently anticipated.

Projected Work for the Next Reporting Period

- Site preparation including on-Site trailer maintenance and utility hookup, mobilization of safety equipment and PPE.
- Implementation of the RI/FS Work Plan including:
 - Inspection of existing monitoring wells and soil gas probes
 - Ground water level measurements on existing wells, and monitoring well sampling at 14 locations within OU1
 - Utility clearance and Site-clearing in preparation for soil/fill test pit and borehole investigations
- Meeting(s) with owners and tenants to discuss proposed RI/FS work and scheduling considerations.
- Coordination with subcontractors for test pit and drilling activities to determine schedule for field work.



- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

VC/cb/16

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Valerie Chan, GHD
Steve Quigley, GHD



November 10, 2017

Reference No. 038443-111

Ms. Leslie Patterson
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Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: October 1 through 31, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of October 1 through 31, 2017.

The next Progress Report for the month of November 2017 will be submitted on or before December 10, 2017.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted In October 2017 are summarized below.

October 2 – October 13

- Ground water samples were collected from eleven existing monitoring wells (MW-206, MW-207, MW-208, MW-210, MW-210A, MW-210B, MW-218A, MW-218B, MW-225, MW-226, and MW-227). Two additional monitoring wells (MW-217 and MW-228) were not sampled due to the presence of stockpiled material on Parcel 5054 (Valley Asphalt) and MW-214 was not accessible as site access was prohibited by the property owner at Parcel 3261 (owned by Jim City Salvage Inc.).
- Monitoring wells were inspected and water level measurements were collected at accessible monitoring wells.
- Vegetation clearing was completed at proposed Test Pit and Test Trench locations in preparation for the soil/fill investigation.
- Site preparation including on-Site trailer maintenance and utility hookup, mobilization of safety equipment and PPE was completed.

October 25 – October 27

- Meetings with representatives of property owners and tenants regarding proposed RI/FS work and scheduling considerations, were held with the following:
 - Mark Fornes Realty (representing the Site owners and Dryden Road business tenants)
 - Valley Asphalt (Dan Crago and Craig Ousley)
 - Miami Conservancy District (Roxanne Farrier)
 - B&G Equipment (Dave Girard)
 - Jim City Salvage (Jim Worley and Steve Worley)
 - non-responsive
 - Globe Equipment (Hilton Garner)
- GHD provided information regarding proposed sampling activities to the parties listed and received verbal approval with the exception of Jim City Salvage and Globe Equipment.
- GHD visited other properties on East River Road regarding access for sampling, including Century Propane (Parcel 3255) and the residence at non-responsive GHD spoke to a receptionist at Century Propane to explain the request for obtaining permission to conduct sampling and asked that the property owner be notified. GHD was unable to speak with anyone at the residence non-responsive) since it appeared that residents were not present at the time.



- On October 27, 2017, GHD hand-delivered a letter to Jim City Salvage as a follow-up to GHD's visit noted above, to again request access to conduct the necessary RI sampling.
- On October 27, 2017, GHD hand-delivered access request letters to Century Propane and the residence at [redacted] as a follow-up to the respective visits by GHD noted above.
- Utility clearance was completed for the majority of proposed test pit locations within OU1.

October 30 – October 31

- Continued utility clearance for proposed test pits locations within OU1.
- Soil/fill investigation was completed at four proposed test pit locations, including collection and submittal of eight samples for laboratory analysis.

Removal Action ASAOCS Developments

There were no new developments in October 2017.

Summaries of all Anticipated Problems and Planned Resolutions

As noted above, discussions with property owners and tenants are being conducted to coordinate access for sample collection. At this time, requests for access to conduct sampling have been met with resistance by the following:

Within OU1:

- Jim City Salvage, Parcels 3261, 3753, 4423, and portions of Parcel 5178

Outside OU1:

- Globe Equipment, Parcel 3207

The Respondents will continue discussions with the parties above during the next reporting period and will identify any problems that arise.

Projected Work for the Next Reporting Period

- Implementation of the RI/FS Work Plan including:
 - Inspection of existing soil gas probes
 - Continue the soil/fill test pit investigation
 - Commence groundwater investigation including driller mobilization
 - Utility clearance and Site-clearing in preparation for soil/fill borehole investigations



- Continue discussions and meeting(s) as needed with owners and tenants regarding proposed RI/FS work and scheduling considerations.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

VC/ks/1

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
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Ben Prevost, NCR
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Wray Blattner, Thompson Hine
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Valerie Chan, GHD
Steve Quigley, GHD



December 8, 2017

Reference No. 038443-111

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Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: November 1 through 30, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of November 1 through 30, 2017.

The next Progress Report for the month of December 2017 will be submitted on or before January 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted In November 2017 are summarized below.

- Soil/fill investigation continued and the following activities were completed in November 2017:
 - Excavation of test pits and trenches occurred from October 30, 2017 to November 9, 2017
 - 18 test pit and test trench excavations were completed in November 2017.
 - Equipment was decontaminated and removed from the Site on November 10, 2017.
 - Used personal protective equipment (PPE) and polyethene sheeting, was placed in a roll-off box, stage on-Site pending arrangements for off-Site disposal
 - A total of 40 samples were submitted to TestAmerica during the test pit/trench investigation for laboratory analyses of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, pesticides, metals including mercury, and cyanide.
 - A total of 25 samples were submitted were submitted to TestAmerica during the test pit/trench investigation for laboratory analysis of dioxins/furans.
 - A total of 13 samples were submitted to EMSL for asbestos analysis on November 27, 2017.
- Two test trench locations could not be completed. Test trench (TT-24) located on Valley Asphalt was buried under a reclaimed asphalt pile. Test Trench (TT-42) located on B&G Equipment property (1901 Dryden Road) was flooded due to accumulated rainfall. These test trenches will be completed at a later date when conditions allow.
- Continued preparation work for proposed borehole, gas probe, monitoring well (temporary and permanent), and vertical aquifer sampling (VAS) locations. This includes coordination with drilling and other subcontractors prior to mobilization, utility clearance, and discussions with property owners.
- Continued discussions with Jim City Salvage representatives regarding access for conducting sampling on their property. Jim City Salvage has verbally agreed to allow access in discussions with Langsam Stevens Silver & Hollaender (LSSH). An updated access agreement is being prepared by LSSH on behalf of the Respondents.
- On November 29, 2017, GHD met with Mark Fornes Realty and Site owner representatives to discuss project status and coordination with Dryden Road business tenants for upcoming field activities.
- On November 29, 2017, GHD met with Globe Equipment to discuss the request for property access and to answer questions pertaining to the proposed groundwater investigation. Globe Equipment is considering the request for property access.
- On November 29, 2017, GHD visited properties on East River Road regarding access for sampling, including Century Propane (Parcel 3255) and the residence at [REDACTED] (non-responsive). GHD spoke to a receptionist at Century Propane to reiterate the request for obtaining permission to



conduct sampling and asked that the property owner contact GHD. GHD was unable to speak with anyone at the residence [REDACTED] non-responsive [REDACTED].

Removal Action ASAOC Developments

There were no new developments in November 2017.

Summaries of all Anticipated Problems and Planned Resolutions

As noted above, discussions with property owners and tenants are being conducted to coordinate access for sample collection. At this time, requests for access to conduct sampling have been met with resistance by the following:

Outside OU1:

- Globe Equipment, Parcel 3207
- Century Propane, Parcel 3255
- Resident(s) at [REDACTED] non-responsive [REDACTED]

The Respondents will continue discussions with the parties above during the next reporting period and will identify any problems that arise.

Projected Work for the Next Reporting Period

- Implementation of the RI/FS Work Plan including:
 - Complete inspection of existing soil gas probes and monitoring wells
 - Utility clearance in preparation for soil/fill borehole investigations, groundwater investigations, and soil gas probe installations
 - Continue soil/fill borehole investigation including driller mobilization (GeoProbe rig)
 - Commence groundwater investigation including driller mobilization (Rotosonic rig)
 - Commence soil gas probe repair (if required), installation and reinstallation
- Continue discussions and meeting(s) as needed with owners and tenants regarding proposed RI/FS work and scheduling considerations.
- Complete quarterly subslab depressurization system (SSDS) inspections on all buildings with an operating SSDS.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

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Julian Hayward

VC/cb/2

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January 10, 2018

Reference No. 038443-111

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Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: December 1 through 31, 2017
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of December 1 through 31, 2017.

The next Progress Report for the month of January 2018 will be submitted on or before February 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in December 2017 are summarized below.

- The following Geoprobe borehole soil/fill investigation activities were completed in December 2017:
 - Geoprobe borehole investigation commenced December 6, 2017.
 - 17 boreholes were completed between December 6, 2017 and December 21, 2017.
 - Fifteen samples were submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, metals including total chromium, mercury, and cyanide.
 - Nine samples were submitted to TestAmerica for laboratory analysis of total chromium.
 - Twenty-four samples were submitted to TestAmerica for laboratory analysis of chromium speciation based on the results of the total chromium analysis as detailed in the RI/FS Work Plan.
 - Five samples were submitted to TestAmerica for laboratory analysis of dioxins/furans.
 - Soil cuttings were placed in a lined roll-off box, staged on Site, pending waste characterization and disposal
- The following Rotosonic Vertical Aquifer Sampling (VAS) groundwater investigation activities were completed in December 2017:
 - Rotosonic VAS commenced December 11, 2017.
 - VAS boring VAS-15B was completed on December 15, 2017.
 - VAS boring VAS-35 began December 18, 2017 and was completed on January 4, 2018.
 - Eighteen samples from the two VAS locations were submitted to TestAmerica for laboratory analysis of VOCs, Method 8011 VOCs (1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), SVOCs, metals (total and dissolved), chloride, sulfate, nitrite and nitrate.
 - Two of the 18 samples were submitted to TestAmerica for additional laboratory analysis of SVOCs, pesticides, PCBs, and cyanide, both from VAS boring VAS-35.
 - Decon and purge water were placed in a Frac tank, staged on Site, pending waste characterization and disposal.
- Continued preparation work for RI/FS activities to be completed in January 2018, including utility clearance, site access, and subcontractor procurement and scheduling.
- Jim City Salvage has verbally agreed to allow access in discussions with Langsam Stevens Silver & Hollaender (LSSH). An updated access agreement is being prepared by LSSH on behalf of the Respondents.



- On December 5, 2017, GHD provided USEPA with a letter summarizing the results of the October 2017 groundwater sampling conducted at the South Dayton Dump and Landfill Site.
- On December 13, 2017, GHD hand-delivered access request letters to Century Propane and the residence at [redacted] as a follow-up to visits by GHD on November 29, 2017.

Removal Action ASAOC Developments

There were no new developments in December 2017.

Summaries of all Anticipated Problems and Planned Resolutions

As noted above, discussions with property owners and tenants continue. At this time, requests for access to perform environmental sampling have not been accepted by the following properties:

Outside OU1

- Globe Equipment, Parcel 3207 (discussions are continuing)
- Century Propane, Parcel 3255 (no response)
- Resident(s) at [redacted] (no response)

The Respondents will continue efforts to obtain access to these properties.

Projected Work for the Next Reporting Period

- Continue RI/FS sampling activities in accordance with the approved work plan, subject to weather conditions. Activities planned include:
 - VAS sampling
 - Soil/fill investigation
 - Installation of temporary and permanent monitoring wells
 - Soil gas probe installation, reinstallation, and/or repair
- Continue negotiations with property owners to obtain access in order to complete RI/FS sampling objectives.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

VC/ks/3

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
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Ben Prevost, NCR
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Wray Blattner, Thompson Hine
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, CH2M Hill
Valerie Chan, GHD
Steve Quigley, GHD



February 9, 2018

Reference No. 038443-111

Ms. Leslie Patterson
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Ms. Tamara McPeck
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45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
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26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: January 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of January 1 through 31, 2018.

The next Progress Report for the month of February 2018 will be submitted on or before March 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in January 2018 are summarized below.

- The following Geoprobe borehole **soil/fill** investigation activities were completed in January 2018:
 - **Twenty-seven boreholes were completed between January 3, 2018 and January 23, 2018.**
 - Thirty-three samples were submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, metals including total chromium, mercury, and cyanide.
 - Thirty-three samples were submitted to TestAmerica for laboratory analysis of chromium speciation based on the results of the total chromium analysis as detailed in the RI/FS Work Plan.
 - Twelve samples were submitted to TestAmerica for laboratory analysis of dioxins/furans.
 - Thirty-five samples were submitted to EMSL Analytical for laboratory analysis of asbestos by Polarized Light Microscopy (PLM) using EPA/600/R-93/116.
 - Soil cuttings were placed in a lined roll-off box, staged on Site, pending waste characterization and disposal
- The following Geoprobe soil gas probe investigation activities were completed in January 2018:
 - **Thirteen soil gas probe boreholes were completed between January 10 and January 30, 2018.**
 - Twelve samples were submitted to TestAmerica for laboratory analyses of VOCs, fraction of organic carbon (FOC), and grain size.
 - Soil gas probe GP32-18 was installed on January 10, 2018.
 - Soil gas probe GP30-18 was installed on January 17, 2018.
 - Soil gas probe GP33-18 was installed on January 23, 2018.
 - Existing soil gas probes GP19-09 and GP20-09 (located on EU15) were abandoned and reinstalled at deeper depths as GP19-18 and GP20-18 on January 24, 2018.
 - Soil gas probe GP31-18 was installed on January 25, 2018.
 - Soil gas probe GP25-18 was installed on January 29, 2018.
 - Soil gas probe GP01-18 was reinstalled at a deeper depth on January 29, 2018.
 - Soil gas probes GP26-18 and GP28-18 were installed on January 31, 2018.
 - Efforts were made to reinstall existing soil gas probe GP03-09 at a depth greater than 5 ft bgs; however, this was not completed because the water table was present at a depth of 6.0 ft bgs.
- The following Rotosonic **Vertical Aquifer Sampling (VAS)** groundwater investigation activities were completed in January 2018:
 - VAS boring VAS-32 was completed on January 9, 2018.





- VAS boring VAS-33 was completed on January 17, 2018.
 - VAS boring VAS-31 was completed on January 24, 2018.
 - VAS boring VAS-44 began on January 25, 2018.
 - Forty-two samples from the four VAS locations were submitted to TestAmerica for laboratory analyses of VOCs, Method 8011 VOCs (1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved), chloride, sulfate, nitrite and nitrate.
 - Six of the 42 samples were submitted to TestAmerica for additional laboratory analysis of SVOCs, pesticides, PCBs, and cyanide; two each from VAS borings VAS-32, VAS-33, and VAS-31.
 - Decontamination and purge water were placed in a Frac tank, staged on Site, pending waste characterization and disposal.
- Monitoring well MW-230 was installed on January 25, 2018.
- On January 8, 2018, GHD notified USEPA that Valley Asphalt's operations had affected the Respondents proposal to reinstall three soil gas probes (GP01-09, GP17-09, and GP18-09) within the Valley Asphalt property. GHD proposed to relocate GP01-09 and to abandon GP17-09 and GP18-09, as the buildings adjacent to GP17-09 and GP18-09 were demolished and VI risks no longer exist. USEPA agreed to the proposed modifications on January 12, 2018.
- On January 9, 2018, USEPA notified GHD of three issues associated with the October 2017 groundwater sampling event. GHD addressed the comments through email correspondence on January 22, 2018.
- On January 10, 2018, USEPA verbally agreed to GHD's proposal to use stainless steel for the screened intervals of soil gas probes at the Site. The verbal discussion was documented in email correspondence on January 19, 2018.
- On January 25, GHD provided USEPA with a summary of notification attempts since October 2017 to request access for environmental investigation purposes at the following properties:
- 2305 and 2317 East River Road – Lynne Leigh Properties (Century Propane)
 - [REDACTED] non-responsive
- GHD continued discussions with Globe Equipment (Parcel 3207) to obtain property access in January. On January 30, 2018, GHD was notified that access would not be granted.
- Based on working conditions experienced through January, the subcontracted Geoprobe rig and crew were demobilized (on February 1) pending an improvement in weather and working conditions.
- On behalf of the Respondents, Langsam Stevens Silver & Hollaender (LSSH) has finalized an updated site access agreement with Jim City Salvage.





Removal Action ASAOC Developments

- On January 26, 2018, GHD completed an inspection of the sub-slab depressurization system (SSDS) located in Building 24 - Globe Manufacturing.

Summaries of all Anticipated Problems and Planned Resolutions

Working and weather conditions are subject to continuing assessment to determine practicality of field work implementation. The subcontracted Geoprobe rig and crew were demobilized as noted above and will be remobilized at a later date.

Requests for access to perform environmental sampling have not been accepted by the following properties:

Outside OU1

- Globe Equipment, Parcel 3207 (access denied)
- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property owners on behalf of the Respondents.

Projected Work for the Next Reporting Period

- Continue RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions. Activities planned include:
 - VAS sampling
 - Installation of permanent monitoring wells
- Complete a hydrographic survey of the Quarry Pond, tentatively scheduled for the week of February 12, 2018.
- Complete SSDS inspections at all remaining buildings not inspected on January 26, 2018.
- Complete annual vapor intrusion (VI) sampling at Building 24 - Globe Manufacturing and Building 17 - D. Dickinson Construction (formerly Megacity Construction).
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

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Julian Hayward

VC/cb/4

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
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Ben Prevost, NCR
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Wray Blattner, Thompson Hine
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, CH2M Hill
Valerie Chan, GHD
Steve Quigley, GHD



March 9, 2018

Reference No. 038443-111

Ms. Leslie Patterson
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Ms. Tamara McPeck
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Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: February 1 through 28, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of February 1 through 28, 2018.

The next Progress Report for the month of March 2018 will be submitted on or before April 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in February 2018 are summarized below.

- The following Geoprobe soil gas probe investigation activities were completed in February 2018:
 - Soil gas probes GP27-18 and GP29-18 were installed on February 1, 2018.
- The following Rotosonic Vertical Aquifer Sampling (VAS) groundwater investigation activities were completed in February 2018:
 - VAS boring VAS-44 was completed on February 6, 2018.
 - VAS boring VAS-38 was completed on February 14, 2018.
 - VAS boring VAS-34 was completed on February 23, 2018.
 - Thirty-three samples from the three VAS locations were submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), Method 8011 VOCs (1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved), chloride, sulfate, nitrite and nitrate.
 - Four of the 33 samples were submitted to TestAmerica for additional laboratory analysis of SVOCs, pesticides, PCBs, and cyanide; two each from VAS borings VAS-34 and VAS-38.
 - Decontamination and purge water were placed in a frac tank, staged on Site, pending waste characterization and disposal.
- Monitoring well MW-233 was installed on February 15, 2018.
- On February 1, 2018, GHD provided USEPA with a summary documenting the number of attempts since October 2017 requesting access for environmental investigation purposes at Globe Equipment (Parcel 3207). USEPA agreed to contact the above mentioned property owner on behalf of the Respondents.
- On February 1, 2018, GHD provided USEPA with copies of letters delivered to the following East River Road Properties on October 27, 2017 and December 13, 2017 requesting access to the property:
 - 2305 and 2317 East River Road – Lynne Leigh Properties (Century Propane)
 - [REDACTED] non-responsive
- On February 8, 2018, GHD notified USEPA that the hydrographic survey of the Quarry Pond, that had been tentatively scheduled for mid-February, was postponed until March 2018, due to ice conditions.
- Due to poor weather and working conditions experienced through February and limited accessibility to the remaining drilling locations, the Rotosonic contractor was demobilized on February 28 pending improving weather and working conditions.



Removal Action ASAO Development

- Annual vapor intrusion (VI) sampling at Building 24 - Globe Manufacturing and Building 17 - D. Dickinson Construction (formerly Megacity Construction) was scheduled for February 2018 but were postponed due to access restrictions at Building 17 and a required repair to the sub-slab depressurization system (SSDS) at Building 24.

Summaries of all Anticipated Problems and Planned Resolutions

Once weather and working conditions improve, the Rotosonic contractor will be remobilized.

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Globe Equipment, Parcel 3207 (access denied)
- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property owners on behalf of the Respondents.

Requirements for obtaining access to conduct sampling at DP&L property is subject to discussion with USEPA.

Projected Work for the Next Reporting Period

- Continue RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. Activities planned include:
 - Surveying soil/fill and groundwater sampling locations.
 - Coordination with Valley Asphalt (Parcel 5054) to complete test trench investigation (TT-24) and soil gas probe abandonment (GP17-09 and GP18-09)
 - Coordination with B&G Trucking (Parcel 5171) to complete test trench investigation (TT-42).
 - Conduct first round of soil gas soil gas monitoring for field parameters.
 - Conduct groundwater level monitoring.
 - Coordination for soil/fill sampling to be conducted within Southern Parcels (EU2 and EU3 through EU8).
 - Coordination for installation of permanent monitoring wells MW-231, MW-232, MW-234, and MW-235.



- Complete a hydrographic survey of the Quarry Pond, tentatively scheduled for March 6 and 7, 2018.
- Complete annual VI sampling at Building 24 - Globe Manufacturing and Building 17 - D. Dickinson Construction (formerly Megacity Construction).
- Complete SSDS inspections at buildings with an operating system.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

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Julian Hayward

VC/cb/5

cc: (all by pdf) Ken Brown, ITW
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Brett Fishwild, CH2M Hill
Valerie Chan, GHD
Steve Quigley, GHD



April 10, 2018

Reference No. 038443-111

Ms. Leslie Patterson
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On-Scene Coordinator
USEPA Region V
Emergency Response Branch
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Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: March 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of March 1 through 31, 2018.

The next Progress Report for the month of April 2018 will be submitted on or before May 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in March 2018 are summarized below.

- The following soil gas investigation activities were completed:
 - Field parameter monitoring for organic vapors, carbon dioxide, oxygen, methane, hydrogen sulfide, and explosive gases/lower explosive limit was conducted on 29 of 34 GHD soil gas probe locations and five of seven USEPA soil gas probe locations. Results of the March 2018 field parameter monitoring are provided in Table 1. Existing soil gas probe locations are shown on Figure 1.
 - Two GHD soil gas probes (GP17-09 and GP18-09) located on Valley Asphalt property are not included in the current monitoring program. Both of these probes are shallow (less than 5 feet deep) and were originally located near buildings which have since been demolished. Also both probes are buried under stockpiled material. GHD will evaluate the need for additional soil gas monitoring in this area based on available data and accessibility considerations.
 - One USEPA soil gas probe location (GP-2) adjacent to the DP&L transportation building and former UST area is not included in the field monitoring program based on USEPA approval of GHD's Technical Report: GP-2 Methane Monitoring Summary & Assessment, South Dayton Dump and Landfill Site and Revision 1, Addendum 2 of the VI Mitigation Work Plan, provided on December 12, 2016.
 - GHD was unable to monitor three soil gas probes located on or near Jim City Salvage property. GP06-09 was covered by snow, GP07-09 was buried under a pile of tires, and GP08-09 was buried under scrap materials.
 - GHD was unable to monitor one USEPA soil gas probe along Dryden Road. GP-7 was covered by snow.
 - Planned actions for soil gas probes that could not be monitored for field parameters in March 2018 are described in the Projected Work for the Next Reporting Period section below.
- The following Quarry Pond investigation activities were completed:
 - A hydrographic survey of the Quarry Pond was completed by a GHD subcontractor (J.F. Brennan) between March 6 and 8, 2018.
- The following groundwater investigative activities were completed:
 - Water level monitoring was completed at 30 of 32 existing monitoring well locations. Water levels were not measured at MW-217 and MW-228 located on Valley Asphalt (see discussion below). Surface water elevations were also measured in three ponds, including the small pond, large pond and the Quarry Pond. Monitoring well locations are shown on Figure 2, and groundwater elevations are provided in Table 2.



- Groundwater sampling was completed at one monitoring well (MW-214) located at Jim City Salvage property after access was granted.
- Two groundwater samples (including one field duplicate) were collected from MW-214 and submitted to TestAmerica for laboratory analysis of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, pesticides, herbicides, metals (total and dissolved) and cyanide, and major anions (chloride, sulfate, nitrite, nitrate).
- GHD was unable to locate and inspect two monitoring wells on Valley Asphalt property (MW-217 and MW-228). MW-217 has been covered by an asphalt roadway and MW-228 is underneath a debris pile.
- Planned actions for monitoring wells that could not be sampled in October 2017 or March 2018 are described in the Projected Work for the Next Reporting Period section below.
- The following soil/fill investigation activities were completed:
 - Excavation of test trench TT-24 at Valley Asphalt.
 - Two soil/fill samples were collected from depths of 2 to 4 ft bgs and 13 to 15 ft bgs and submitted to TestAmerica for laboratory analysis of volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, pesticides, metals including mercury, and cyanide.
 - One soil/fill sample was collected from a depth of 13 to 15 ft bgs and submitted to EMSL for asbestos analysis.
 - One location (TT-42) at B&G Equipment could not be excavated due to soil/ground conditions and property owner concerns. Planned actions for excavation of test trench TT-42 are discussed in the Projected Work for the Next Reporting Period section below.
- Surveying of 15 shallow boreholes, four vertical aquifer sampling (VAS) boreholes, two monitoring wells and 13 soil gas probe locations was completed on March 1 and 23, 2018.

Removal Action ASAOC Developments

- On March 6, 2018, GHD completed annual vapor intrusion (VI) sampling at Building 17, occupied by D. Dickinson Construction (formerly Megacity Construction). Analytical laboratory results are due in April 2018.
- On March 14, 2018, GHD replaced the EP-6 fan at Building 24 - Globe Manufacturing.
- On March, 20, 2018, GHD completed sub-slab depressurization system (SSDS) inspections at buildings with an operating system, including Buildings 8 and 9 – B&G Equipment and Truck Repair, Building 12 – Overstreet Painting and S&J Precision, Building 14 – NexGen Vending, Building 15 – SIM Trainer, Building 17 – D. Dickinson Construction (formerly Megacity Construction), and Building 24 – Globe Manufacturing.
- On March 22, 2018, GHD completed annual VI proficiency sampling at Building 24 - Globe Manufacturing. Analytical laboratory results are due in April 2018.



Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Globe Equipment, Parcel 3207 (access denied)
- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Respondents are assessing requirements for obtaining access to conduct sampling at DP&L property, following discussion with USEPA in March.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Complete data validation for VAS locations that were conducted through February 23, 2018.
 - Continue data validation for soil/ fill samples collected to date.
 - Assess results of Quarry Pond survey and prepare report for agency submission.
 - Locate and inspect three soil gas probes on or near Jim City salvage property including GP06-09, GP07-09, and GP08-09, and USEPA soil gas probe GP-7 to identify repairs that are needed, if any, followed by field monitoring.
 - Locate and inspect two monitoring wells on Valley Asphalt including MW-217 and MW-228, to identify repairs that are needed, if any, followed by sampling.
 - Coordination with B&G Trucking (Parcel 5171) to complete test trench investigation (TT-42).
 - Coordination for soil/fill sampling to be conducted within Southern Parcels (EU2 and EU3 through EU8).
 - Coordination for temporary monitoring well installation and groundwater sampling at all accessible locations.
 - Remobilize Geoprobe drilling rig and crew to conduct soil/ fill sampling, tentatively scheduled for April 30, 2018.
 - Sample water from the on-Site Frac tank for waste characterization to determine disposal requirements.



- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

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Julian Hayward

VC/cb/6

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Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

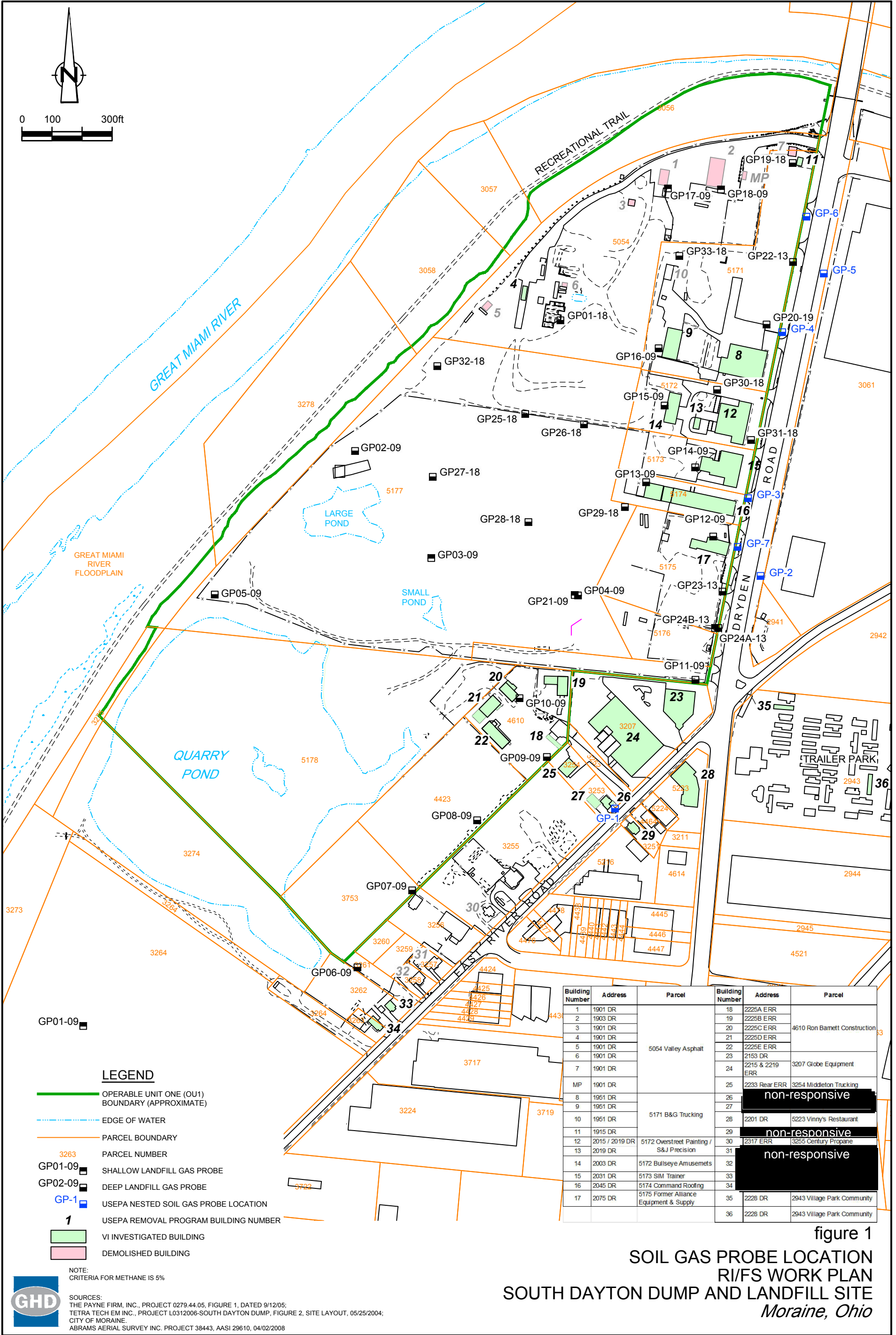


figure 1
SOIL GAS PROBE LOCATION
RI/FS WORK PLAN
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

Table 1
Soil Gas Probes - Field Parameters - March 2018
South Dayton Dump Landfill
Moraine, Ohio

					Field Parameters						
Location	Coordinates ¹		Coordinates ¹		Pressure (in WC)	CO ₂ % v/v	O ₂ % v/v	LEL % v/v	Methane % v/v	H ₂ S (ppm)	VOC (ppm)
	Easting	Northing	Latitude	Longitude							
GP01-18	1484966.01	634100.25	39.72834190	-84.21929246	-0.0211	7.3	0.0	>100	21.6	0	0.0
GP02-09	1484270.121	633680.0374	39.72715208	-84.22173773	0.00368	11.4	0.0	>100	14.6	0	0.0
GP03-09	1484523.781	633323.9548	39.72618795	-84.22081191	-0.00260	0.0	20.9	0	0.0	0	0.6
GP04-09	1485011.937	633199.8322	39.72587278	-84.21906825	-0.00937	2.9	1.5	13	0.7	0	0.3
GP05-09	1483803.743	633202.6499	39.72581729	-84.22336320	-0.00331	5.8	9.2	0	0.0	0	1.1
GP06-09	1484278.341	631963.2141	39.72244008	-84.22159214	Could not be found (flushmount)						
GP07-09	1484460.285	632219.3682	39.72315270	-84.22096277	Under a tire pile (flushmount)						
GP08-09	1484676.269	632452.1512	39.72380296	-84.22021081	Could not be found (stick up)						
GP09-09	1484908.145	632662.4685	39.72439237	-84.21940082	-0.00233	2.8	20.2	0	0.0	0	0.6
					0.00253	2.9	0.0	7	0.4	0	0.7
					0.00371	2.9	0.0	7	0.3	0	0.6
GP10-09 ²	1484817.229	632858.0753	39.72492453	-84.21973724	-0.00341	2.8	19.5	0	0.0	0	0.5
GP11-09	1485402.22	632919.1781	39.72512281	-84.21766193	-0.0241	0.1	21	0	0.0	0	0.0
GP12-09	1485461.153	633395.7292	39.72643396	-84.21748467	-0.0158	8.5	2.1	0	0.0	0	0.2
GP13-09	1485238.283	633576.2946	39.72691794	-84.21828913	0.00243	1.2	18.3	0	0.0	0	0.5
GP14-09	1485401.193	633625.8346	39.72706243	-84.21771337	-0.01462	5.3	14.6	0	0.0	0	0.9
GP15-09	1485299.599	633831.2243	39.72762089	-84.21808841	-0.00976	5.4	0.0	50	2.5	0	0.4
GP16-09	1485279.598	634021.7553	39.72814283	-84.21817240	Buried under asphalt						
GP17-09	1485310.585	634552.8481	39.72960222	-84.21809817	Buried under asphalt						
GP18-09	1485487.246	634549.7779	39.72960301	-84.21746995	-0.0494	8.5	0.3	63	3.2	0	4.8
GP19-18	1485725.976	634632.676	39.72984302	-84.21662690	-0.0272	8.3	4.1	0	0.0	0	3.0
GP20-18	1485634.382	634103.237	39.72838501	-84.21691671	-0.0572	Restricted pump flow on GEM2000+ and PID (valve open)					
GP21-09	1485001.00	633201.06	39.72587558	-84.21910721	-0.0393	9.8	0.0	0	0.0	0	0.2
GP22-13	1485726.481	634308.635	39.7289536	-84.2166032	-0.00476	5.4	14.9	0	0	0	0.1
GP23-13	1485492.09	633212.45	39.725932	-84.217362	-0.00728	7.3	13.0	0	0.0	0	0.1
GP24A-13	1485478.017	633091.542	39.72559989	-84.21740416	-0.00069	3.7	17.8	0	0.0	0	0.0
GP24B-13	1485467.077	633091.542	39.72559932	-84.21744304	-0.00585	5.2	0.6	58	2.9	0	0.0
GP25-18	1484833.55	633800.048	39.72751096	-84.219743	-0.0301	7.7	0.0	51	2.5	0	3.3
GP26-18	1485025.842	633768.616	39.72743474	-84.21905732	0.00217	4.7	0.0	17	0.8	0	20.2
GP27-18	1484526.081	633585.183	39.72690511	-84.22082143	0.00323	3.8	0.0	>100	5.3	0	6.5
GP28-18	1484848.096	633443.026	39.72653175	-84.21966712	-0.0213	4.4	2.5	7	0.3	0	10.6
GP29-18	1485165.163	633490.138	39.72667764	-84.21854322	-0.00732	0.0	20.7	0	0.0	0	0.3
GP30-18	1485470.087	633860.316	39.72770965	-84.21748433	0.0152	0.5	19.7	0	0.0	0	2.0
GP31-18	1485579.588	633710.407	39.72730388	-84.21708494	0.01553	9.2	8.0	0	0.0	0	0.0
GP32-18	1484514.275	633941.368	39.72788217	-84.22088753	-0.0301	11.9	2.5	0	0.0	0	0.0
GP33-18	1485345.078	634328.335	39.72898776	-84.21796037	-0.462	1.7	19.6	0	0.0	0	0.0
USEPA GP-1 North	1485134.681	632491.367	39.72393456	-84.218584	-0.00342	0.6	20.7	0	0.0	0	0.0
USEPA GP-1 Middle	1485134.681	632491.367	39.72393456	-84.218584	-0.431	No flow on GEM2000+; No flow PID					
USEPA GP-1 South	1485134.681	632491.367	39.72393456	-84.218584	Excluded from Field Paramter Monitoring						
USEPA GP-2	1485618.912	633264.65	39.7260824	-84.21691502	-0.00769	2.2	19.1	0	0	0	0.1
USEPA GP-3 North	1485577.432	633522.976	39.7267893	-84.21707993	0.00512	1.1	19.6	0	0	0	0
USEPA GP-3 SW	1485577.432	633522.976	39.7267893	-84.21707993	0.00225	No flow on GEM2000+; No flow PID					
USEPA GP-3 SE	1485577.432	633522.976	39.7267893	-84.21707993	-0.00813	2.5	17.7	0	0.0	0	0.1
USEPA GP-4 North	1485690.871	634075.08	39.72831067	-84.216714	-0.00971	2.4	18.8	0	0.0	0	0.0
USEPA GP-4 Middle	1485690.871	634075.08	39.72831067	-84.216714	-0.00778	2.2	19.2	0	0.0	0	0.0
USEPA GP-4 South	1485690.871	634075.08	39.72831067	-84.216714	-1.115	4.7	15.6	0	0.0	0	0.0
USEPA GP-5 North	1485829.137	634269.86	39.72885253	-84.21623565	-0.00637	4.4	16.2	0	0.0	0	0.0
USEPA GP-5 South	1485829.137	634269.86	39.72885253	-84.21623565	-0.00475	3.2	17.5	0	0.0	0	0.0
USEPA GP-6 North	1485771.065	634459.115	39.72936897	-84.21645488	-0.00168	4.0	16.4	0	0.0	0	0.0
USEPA GP-6 Middle	1485771.065	634459.115	39.72936897	-84.21645488	-0.00316	5.1	14.4	0	0.0	0	0.0
USEPA GP-6 South	1485771.065	634459.115	39.72936897	-84.21645488	Could not be found						
USEPA GP-7	1485542.866	633361.35	39.72634386	-84.21719188							

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

[2] - Confirmatory readings on 3/23/18

CO₂ Carbon Dioxide
O₂ Oxygen
LEL Lower Explosive Limit
H₂S Hydrogen Sulfide
VOC Volatile Organic Compounds
BTOR Below Top of Riser
% v/v Percent by Volume
in WC Inches Water Column

3/22/2018
Barometric Pressure
29.48" Hg
Rel Pressure
-0000.08"

Table 2
March 2018 - Quarterly Groundwater Elevations
South Dayton Dump Landfill
Moraine, Ohio

Historical Data							March 2018		
Location	Coordinates ¹		Coordinates ¹		Depth to Water ft BREF*	Depth to Bottom ft BREF*	Notes	Depth to Water ft BREF*	Groundwater Elevation ft AMSL
	Easting	Northing	Latitude	Longitude					
MW-101A	1484347.13	633062.054	39.72545983	-84.2214221	15.50	37.84		13.96	711.04
MW-102	1483652.723	633238.7445	39.72590845	-84.22390248	8.18	33.11		7.09	710.54
MW-103	1483816.626	633420.7896	39.72641673	-84.2233322	7.10	33.72		5.88	710.62
MW-201	1483992.291	633672.4318	39.72711665	-84.22272483	5.71	34.08		4.87	710.38
MW-202	1485528.312	633458.419	39.72660954	-84.21725018	23.37	43.20		21.64	711.44
MW-203	1485006.228	633009.0361	39.72534878	-84.21907563	20.47	39.82		18.68	711.43
MW-204	1484621.372	633046.2796	39.72543088	-84.22044619	13.17	34.97		11.34	711.35
MW-206	1484303.391	634007.6271	39.7280530	-84.22164167	6.30	34.92		5.14	710.94
MW-207	1484633.096	634363.2688	39.72904644	-84.22049372	6.33	35.71	no cap	5.21	711.12
MW-208	1485584.91	633845.4	39.7276747	-84.21707515	23.76	44.95		22.39	711.48
MW-209	1484343.343	632718.8287	39.72451753	-84.2214123	5.14	27.78		3.38	710.88
MW-209A	1484337.977	632746.335	39.72459275	-84.22143324	4.97	59.30		3.79	710.85
MW-210	1485396.75	632951.11	39.72521019	-84.21768353	22.70	38.42		20.97	711.53
MW-210A	1485399.451	632964.3612	39.72524669	-84.21767483	23.05	88.99		22.47	711.07
MW-210B	1485390.92	632965.07	39.72524819	-84.21770519	23.19	200.33		22.52	711.13
MW-212	1484537.84	632746.3798	39.72460333	-84.2207228	19.52	60.52		17.95	710.88
MW-214	1484342.04	631920.5035	39.72232617	-84.22136283	14.15	67.12		13.23	710.73
MW-215A	1485186.15	633686.53	39.7272178	-84.21848191	23.99	31.90		23.16	711.47
MW-215B	1485183.692	633679.6878	39.72719889	-84.21849018	24.26	60.00		23.37	711.32
MW-216	1485650.98	634007.8	39.72812391	-84.21685126	21.23	65.67		20.79	711.29
MW-217	1484742.267	634203.2315	39.72861287	-84.2200948	25.74	49.62	under asphalt	no reading	no reading
MW-218A	1483339.088	632429.8057	39.72367159	-84.22496242	13.19	24.53		12.46	710.24
MW-218B	1483331.813	632433.7651	39.72368208	-84.22498855	13.53	79.84		12.61	710.36
MW-219	1485662.995	634632.6193	39.72983958	-84.21685079	24.05	35.75		24.04	711.30
MW-225	1485672.903	634142.6036	39.72849507	-84.21678244	19.80	29.68		19.68	711.46
MW-226	1485803.058	634938.6383	39.73068686	-84.21637356	10.15	19.67		10.09	711.00
MW-227	1485248.779	634042.6237	39.7281985	-84.21828336	27.73	37.87		27.67	711.43
MW-228	1485475.109	634388.1852	39.72915883	-84.21750217	27.07	32.69	well damaged	no reading	no reading
MW-229	1485306.197	634681.8015	39.72995594	-84.21812249	25.22	34.33		25.61	711.07
P-211	1484355.171	632855.2796	39.72489269	-84.22137950	5.38	26.01		3.75	711.97
SMALL POND	n/a	n/a	n/a	n/a	1.71	n/a		2.75	712.07
LARGE POND	n/a	n/a	n/a	n/a	1.89	n/a	water below staff guage	<3.380	no reading
LAKE (Quarry Pond)	n/a	n/a	n/a	n/a	3.19	n/a		5.48	711.55
MW-230	1485592	634745.3	n/a	n/a	n/a	TBD (40.0)**		26.08	
MW-233	1483784	633208.7	n/a	n/a	n/a	TBD (32.0)**		19.37	

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet
ft BREF - feet below reference
ft AMSL - feet above mean sea level
* Reference point is Top Of Riser at each monitoring well
* Reference point is Top of Staff Gauge at the Large, Small and Quarry Pond
** Completion Depth



May 10, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: April 1 through 30, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of April 1 through 30, 2018.

The next Progress Report for the month of May 2018 will be submitted on or before June 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in April 2018 are summarized below.

- The following general activities were completed:
 - On April 23, 2018, representatives of the property located at 2153 Dryden Road (Globe Equipment) signed an access agreement with USEPA allowing GHD and its subcontractor's access to conduct environmental sampling.
 - On April 29, 2018, GHD provided a summary of proposed groundwater sampling activities to Dayton Power & Light (DP&L) to facilitate coordination of work to be completed within their property in accordance with the RI/FS Work Plan.
- The following soil gas investigative activities were completed:
 - On April 10, 2018, GHD located and inspected two of three soil gas probes located on or near Jim City Salvage property (GP06-09 and GP08-09) that were not accessible during the March 2018 field parameter monitoring round. A third soil gas probe (GP07-09) could not be located due to presence of stockpiled miscellaneous auto parts.
- The following groundwater investigative activities were completed:
 - Completed data validation for analytical results for vertical aquifer sampling (VAS) locations that were conducted through February 23, 2018.
 - Coordination with subcontractors for sampling activities to be conducted in May, i.e., temporary monitoring wells located within Operable Unit 1 (OU1).
 - Discussions with Valley Asphalt regarding obtaining access to locate and inspect two monitoring wells on Valley Asphalt property (MW-217 and MW-228). MW-217 has been covered by an asphalt roadway and MW-228 is underneath a debris pile.
- The following soil/fill investigation activities were completed:
 - Coordination with subcontractors for sampling activities to be conducted in May, i.e., direct push technology boreholes located within OU1.
 - On April 10, 2018, GHD inspected proposed soil/fill locations on Jim City Salvage property (Parcels 3753 and 4432), to confirm locations would be accessible for environmental drilling and sample collection.

Removal Action ASAOC Developments

- Annual proficiency sampling for Building 17 (D. Dickinson Construction, formerly Megacity Construction) was completed on March 6, 2018 and included collection of one outdoor air and four indoor air samples.



- Annual proficiency sampling for Building 24 (Globe Equipment) was completed on March 22, 2018 and included one outdoor air and three indoor air samples.
- Analytical results from the March 2018 sampling round confirm indoor air concentrations remain less than applicable Ohio Department of Health (ODH) Screening Levels. The analytical results from March 2012 through March 2018 for Buildings 17 and 24 are provided in Tables 1 and 2, respectively.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation for soil/ fill samples collected to date.
 - Coordination and discussions with property owners regarding proposed soil/fill and groundwater sampling.
 - Continue soil/fill sampling within the Southern Parcels (EU3 to EU8), Central Parcels (EU9 to EU13) and Northern Parcels (EU15 and EU16).
 - Complete temporary monitoring well installation and groundwater sampling at all accessible locations within OU1.
 - Assess results of Quarry Pond survey and prepare report for agency submission.
 - Coordinate with property owner to locate one soil gas probe on or near Jim City salvage property (GP07-09) to identify repairs that are needed, if any, followed by field monitoring.
 - Coordination with Valley Asphalt to locate and inspect two monitoring wells including MW-217 and MW-228, to identify repairs that are needed, if any, followed by sampling.
 - Coordination with B&G Trucking (Parcel 5171) to complete test trench investigation (TT-42).
 - Coordinate disposal of waste water from the on-Site Frac tank upon receipt of analytical results.



- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

VC/cb/7

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Robin Lunn, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

Table 1
Summary of Building 17 - Megacity Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:					IA-17-A		IA-17-A		IA-17-A		IA-17-A		IA-17-A		IA-17-B		IA-17-B		IA-17-B		IA-17-B		IA-17-B	
Sample ID:					IA-38443-030712-JC-105		IA-38443-080112-GL-022		IA-38443-022217-JC-005		IA-38443-022217-JC-006		IA-38443-030618-JC-002		IA-38443-030712-JC-107		IA-38443-080112-GL-021		IA-38443-011614-GL-010		IA-38443-060314-GL-003		IA-38443-021915-GL-024	
Sample Date:					3/7/2012		8/1/2012		2/22/2017		2/22/2017 Duplicate		3/6/2018		3/7/2012		8/1/2012		1/16/2014		6/3/2014		2/19/2015	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels																				
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																			
		a	c	b	d																			
Volatile Organic Compounds																								
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	
Benzene	ppbv	20	2	200	20	0.16 J	0.092 J	1.5	1.5	1.4	0.19 J	0.17 J	0.38	3.1 ^e	0.50									
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.043 J	0.050 J	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	
Ethylbenzene	ppbv	2500	250	25000	2500	0.068 U	0.068 U	2.2	1.2	0.11 J	0.13 J	0.93	3.3	0.54										
m&p-Xylenes	ppbv	2000	200	20000	2000	0.13 J	0.12 U	8.5	7.6	4.7	0.39	0.53	2.9	13	1.9									
Naphthalene	ppbv	29	2.9	290	29	0.090 UJ	0.090 U	0.090 UJ	0.18 J	0.15 J	0.090 UJ	0.19 J	0.090 UJ	0.36 J	0.090 U									
o-Xylene	ppbv	2000	200	20000	2000	0.061 U	0.061 U	2.9	2.6	1.5	0.14 J	0.22	0.80	4.4	0.57									
Tetrachloroethene	ppbv	250	25	2500	250	0.040 U	0.040 U	0.060 J	0.045 J	0.33	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	
Trichloroethene	ppbv	20	2	200	20	0.036 U	0.062 J	0.25	0.23	0.036 U	0.036 U	0.18 J	0.036 U	0.12 U	0.057 J									
Vinyl chloride	ppbv	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 1
Summary of Building 17 - Megacity Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:	IA-17-B		IA-17-B		IA-17-B		IA-17-B		IA-17-B		IA-17-Office		IA-17-Office		IA-17-Office		IA-17-Office		IA-17-Office		IA-17-Office		IA-17-Office		IA-17-Office-2017			
Sample ID:	IA-38443-021016-GL-002		IA-38443-021016-GL-003		IA-38443-022217-JC-007		IA-38443-030618-JC-004		IA-38443-030618-JC-005		IA-38443-011614-GL-008		IA-38443-011614-GL-009		IA-38443-060314-GL-001		IA-38443-060314-GL-002		IA-38443-021915-GL-023		IA-38443-021016-GL-001		IA-38443-030618-JC-001		IA-38443-022217-JC-008			
Sample Date:	2/10/2016		2/10/2016		2/22/2017		3/6/2018		3/6/2018		1/16/2014		3/6/2018		6/3/2014		6/3/2014		1/16/2014		2/19/2015		2/10/2016		3/6/2018		2/22/2017	
Parameters	Units								Duplicate				Duplicate				Duplicate											
Volatile Organic Compounds																												
1,1-Dichloroethane	ppbv	0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U
Benzene	ppbv	0.75		0.74		1.6		1.8		1.7		0.34		0.35		1.9		2.3 ^c		0.48		0.63		1.2		1.6		
Chloroform (Trichloromethane)	ppbv	0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U		0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U
Ethylbenzene	ppbv	0.52		0.52		2.2		1.4		1.3		0.87		0.63		1.7		2.2		0.46		0.50		1.0		1.9		
m&p-Xylenes	ppbv	2.0		2.0		8.3		5.6		5.2		2.7		1.9		6.9		8.6		1.6		1.9		4.2		6.6		
Naphthalene	ppbv	0.090 U		0.090 U		0.15 J		0.16 J		0.14 J		0.090 UJ		0.090 UJ		0.22 J		0.18 J		0.090 U		0.090 U		0.13 J		0.090 UJ		
o-Xylene	ppbv	0.59		0.60		2.9		1.8		1.6		0.75		0.55		2.2		2.7		0.47		0.60		1.3		2.1		
Tetrachloroethene	ppbv	0.040 U		0.040 U		0.042 J		0.26		0.32		0.040 U		0.040 U		0.040 U		0.040 U		0.050 J		0.040 U		0.30		0.046 J		
Trichloroethene	ppbv	0.044 J		0.044 J		0.28		0.036 U		0.036 U		0.036 U		0.058 U		0.049 U		0.063 U		0.039 J		0.036 U		0.036 U		0.28		
Vinyl chloride	ppbv	0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		

Notes:
J - Estimated concentration.
NJ - Tentatively identified compound, estimated
U - Not detected at the associated reporting limi
UJ - Not detected; associated reporting limit is e
- - Not applicable.

Table 1
Summary of Building 17 - Megacity Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:	OA-17		OA-17		OA-17		OA-17-2014		OA-17-2014		OA-17-2014		OA-17-2015		OA-17-2017		SS-17-A		SS-17-A		SS-17-A		SS-17-B		SS-17-B			
Sample ID:	OA-38443-030712-JC-104		OA-38443-080112-GL-023		OA-38443-011614-GL-011		OA-38443-060314-GL-004		OA-38443-021016-GL-004		OA-38443-030618-JC-003		OA-38443-021915-GL-025		OA-38443-022217-JC-009		SS-38443-010912-JC-044		SS-38443-030712-JC-106		SS-38443-080112-GL-029		SS-38443-010912-JC-045		SS-38443-030712-JC-108			
Sample Date:	3/7/2012		8/1/2012		1/16/2014		6/3/2014		2/10/2016		3/6/2018		2/19/2015		2/22/2017		1/9/2012		3/7/2012		8/1/2012		1/9/2012		3/7/2012			
Parameters	Units																											
Volatile Organic Compounds																												
1,1-Dichloroethane	ppbv	0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 UJ		0.026 U		0.035 U		0.026 U		0.046 U		0.28 U		0.026 U		
Benzene	ppbv	0.14 J		0.22		0.15 J		0.071 J		0.19 J		0.22		0.23 J		0.19 J		0.20		0.12 J		0.29 J		0.14 U		0.056 U		
Chloroform (Trichloromethane)	ppbv	0.038 U		0.042 J		0.038 U		0.038 U		0.038 U		0.038 U		0.038 UJ		0.038 U		0.031 U		0.038 U		0.70		0.25 U		0.038 U		
cis-1,2-Dichloroethene	ppbv	0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 UJ		0.060 U		0.014 U		0.060 U		0.11 U		0.11 U		0.060 U		
Ethylbenzene	ppbv	0.068 U		0.16 J		0.068 U		0.068 U		0.068 U		0.072 J		0.068 UJ		0.070 J		0.40		0.18 J		0.35		0.18 U		0.068 U		
m&p-Xylenes	ppbv	0.12 U		0.58		0.13 J		0.13 J		0.12 U		0.26		0.12 UJ		0.24		1.0		0.47		1.5		0.38 U		0.12 U		
Naphthalene	ppbv	0.090 UJ		0.090 U		0.090 U		0.090 U		0.090 U		0.095 J		0.090 UJ		0.090 UJ		0.21 J		0.12 J		0.25 J		0.69 U		0.090 UJ		
o-Xylene	ppbv	0.061 U		0.24		0.061 U		0.061 U		0.061 U		0.092 J		0.061 UJ		0.097 J		0.57		0.24		0.90		0.18 U		0.061 U		
Tetrachloroethene	ppbv	0.040 U		0.040 U		0.040 U		0.040 U		0.040 U		0.040 U		0.040 UJ		0.047 J		1.3		1.0		4.9		0.44 J		0.58		
Trichloroethene	ppbv	0.036 U		0.16 J		0.036 U		0.036 U		0.036 U		0.036 U		0.041 J		0.036 U		26 ^a		24 ^a		120 ^a		21 ^a		24 ^a		
Vinyl chloride	ppbv	0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 UJ		0.071 U		0.029 U		0.071 U		0.12 U		0.23 U		0.071 U		

Notes:
J - Estimated concentration.
NJ - Tentatively identified compound, estimated
U - Not detected at the associated reporting limi
UJ - Not detected; associated reporting limit is e
- - Not applicable.

Table 1
Summary of Building 17 - Megacity Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:	SS-17-B		SS-17-C		SS-17-C		SS-17-C	
Sample ID:	SS-38443-080112-GL-020		SS-38443-010912-JC-046		SS-38443-030712-JC-109		SS-38443-080112-GL-018	
Sample Date:	8/1/2012		1/9/2012		3/7/2012		8/1/2012	
Parameters	Units						Duplicate	
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U	0.035 U		0.026 U		0.026 U	
Benzene	ppbv	0.63	0.018 U		0.056 U		0.41	
Chloroform (Trichloromethane)	ppbv	0.10 J	0.031 U		0.038 U		0.038 U	
cis-1,2-Dichloroethene	ppbv	0.060 U	0.14 J		0.060 U		0.060 U	
Ethylbenzene	ppbv	0.068 U	0.022 U		0.068 U		0.42 J	
m&p-Xylenes	ppbv	0.12 U	0.074 J		0.12 U		2.6 J	
Naphthalene	ppbv	0.090 U	0.086 U		0.090 UJ		0.090 U	
o-Xylene	ppbv	0.061 U	0.031 J		0.061 U		1.2 J	
Tetrachloroethene	ppbv	3.7	0.25		0.13 J		1.4	
Trichloroethene	ppbv	120 ^a	0.26		0.074 J		1.1	
Vinyl chloride	ppbv	0.071 U	0.029 U		0.071 U		0.071 U	

Notes:
J - Estimated concentration.
NJ - Tentatively identified compound, estimated
U - Not detected at the associated reporting limi
UJ - Not detected; associated reporting limit is e
- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		IA-24-A		IA-24-A		IA-24-A		IA-24-A		IA-24-A-2014		IA-24-B		IA-24-B		IA-24-B		IA-24-B		IA-24-B	
Sample ID:		IA-38443-031012-JC-140		IA-38443-081112-GL-084		IA-38443-091113-GL-004		IA-38443-020714-JT-003		IA-38443-120514-GL-004		IA-38443-091113-GL-003		IA-38443-020714-JT-005		IA-38443-120514-GL-003		IA-38443-022015-GL-030		SDD-IA-24B-0215	
Sample Date:		3/10/2012		8/11/2012		9/11/2013		2/7/2014		12/5/2014		9/11/2013		2/7/2014		12/5/2014		2/20/2015		2/20/2015	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels																	
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																
		a	c	b	d																
Volatile Organic Compounds																					
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.052 U	0.026 U	0.29 U					
Benzene	ppbv	20	2	200	20	0.23	0.22	0.45	0.29	0.37	0.056 U	0.28	0.67	0.48	0.52						
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 U	0.038 U	0.076 U	0.038 U	0.038 U	0.038 U	0.038 U	0.076 U	0.038 U	0.14 U						
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.72 U						
Ethylbenzene	ppbv	2500	250	25000	2500	2.1	3.2	3.7	0.84	1.0	0.068 U	0.60	0.92	0.39	0.43						
m&p-Xylenes	ppbv	2000	200	20000	2000	8.4	11	14	2.8	3.4	0.12 U	1.9	3.5	1.5	1.8						
Naphthalene	ppbv	29	2.9	290	29	0.090 UJ	0.096 J	0.21 J	0.090 U	0.090 U	0.090 U	0.090 U	0.18 U	0.090 U	0.71 U						
o-Xylene	ppbv	2000	200	20000	2000	3.9	6.4	6.1	1.4	1.3	0.061 U	0.90	1.4	0.61	0.72						
Tetrachloroethene	ppbv	250	25	2500	250	0.23	0.22	0.083 J	0.13 J	0.18 J	0.040 U	0.13 J	41 ^c	0.14 J	0.16						
Trichloroethene	ppbv	20	2	200	20	0.057 J	0.053 J	0.072 U	0.048 J	0.036 U	0.036 U	0.059 J	0.072 U	0.061 J	0.14 U						
Vinyl chloride	ppbv	20	2	200	20	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	0.071 U	0.14 U						

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

-- Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		IA-24-B				IA-24-B		IA-24-B		IA-24-B		IA-24-B		IA-24-B		IA-24-B		IA-24-B		IA-24-C	
Sample ID:		IA-38443-022015-GL-031				IA-38443-071615-6L-033		IA-38443-071615-6L-034		IA-38443-021116-GL-007		IA-38443-021116-GL-008		IA-38443-022217-JC-001		IA-38443-022217-JC-002		IA-38443-032218-GL-001		IA-38443-031012-JC-144	
Sample Date:		2/20/2015				7/16/2015		7/16/2015		2/11/2016		2/11/2016		2/22/2017		2/22/2017		3/22/2018		3/10/2012	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels		Duplicate		Duplicate					Duplicate		Duplicate		Duplicate		Duplicate		
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																
		a	c	b	d																
Volatile Organic Compounds																					
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U		0.027 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U		0.026 U	
Benzene	ppbv	20	2	200	20	0.46		0.11 J		0.12 J		0.32		0.32		0.28		0.23		0.19 J	
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 U		0.040 U		0.038 U		0.073 J		0.038 U		0.041 J		0.038 U		0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U		0.063 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U		0.060 U	
Ethylbenzene	ppbv	2500	250	25000	2500	0.37		0.29		0.33		0.86		0.91		1.6		1.3		0.52	
m&p-Xylenes	ppbv	2000	200	20000	2000	1.5		0.69		0.85		3.8		4.2		6.4		5.5		1.7	
Naphthalene	ppbv	29	2.9	290	29	0.090 U		0.094 U		0.090 U		0.090 U		0.090 U		0.090 UJ		0.097 J		0.090 U	
o-Xylene	ppbv	2000	200	20000	2000	0.59		0.29		0.35		1.7		2.0		2.5		2.1		0.75	
Tetrachloroethene	ppbv	250	25	2500	250	0.13 J		0.042 U		0.040 U		0.11 J		0.25		0.061 J		0.066 J		0.040 U	
Trichloroethene	ppbv	20	2	200	20	0.062 J		0.038 U		0.036 U		0.057 J		0.069 J		0.036 U		0.036 U		0.036 U	
Vinyl chloride	ppbv	20	2	200	20	0.071 U		0.074 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U		0.071 U	

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		IA-24-C				IA-24-C		IA-24-C		IA-24-C		IA-24-C-2014		IA-24-D		IA-24-D		IA-24-D		IA-24-D		IA-24-D	
Sample ID:		IA-38443-031012-JC-145				IA-38443-081112-GL-087		IA-38443-091113-GL-008		IA-38443-020714-JT-004		IA-38443-120514-GL-005		IA-38443-031012-JC-148		IA-38443-081112-GL-089		IA-38443-091213-GL-017		IA-38443-020714-JT-002		IA-38443-120514-GL-006	
Sample Date:		3/10/2012				8/11/2012		9/11/2013		2/7/2014		12/5/2014		3/10/2012		8/11/2012		9/12/2013		2/7/2014		12/5/2014	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels		Duplicate																	
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																		
		a	c	b	d																		
Volatile Organic Compounds																							
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	20	2	200	20	0.25	0.37	0.33 J	0.27	0.35	0.19 J	0.24	0.42	0.27	0.35								
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 U	0.039 J	0.076 U	0.038 U	0.038 U	0.079 J	0.078 J	0.038 U	0.095 J									
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	2500	250	25000	2500	1.8	2.9	2.9	0.63	0.60	1.4	0.99	0.45	0.50									
m&p-Xylenes	ppbv	2000	200	20000	2000	7.4	7.9	10	1.7	2.1	2.5	3.7	3.6	1.5	1.6								
Naphthalene	ppbv	29	2.9	290	29	0.090 UJ	0.13 J	0.35 J	0.090 U	0.090 U	0.090 UJ	0.13 J	0.090 U	0.12 J									
o-Xylene	ppbv	2000	200	20000	2000	3.6	3.7	3.8	0.75	0.81	1.1	1.7	1.8	0.66	0.64								
Tetrachloroethene	ppbv	250	25	2500	250	0.30	0.44	0.080 U	0.12 J	0.11 J	0.11 J	0.24	0.049 J	0.092 J	0.095 J								
Trichloroethene	ppbv	20	2	200	20	0.070 J	0.12 J	0.072 U	0.064 J	0.036 U	0.15 J	0.37	0.11 J	0.085 J	0.14 J								
Vinyl chloride	ppbv	20	2	200	20	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

-- Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		IA-24-D				IA-24-D		IA-24-E		IA-24-F		IA-24-F		IA-24-F		IA-24-F		IA-24-F		IA-24-QCR		OA-24	
Sample ID:		IA-38443-022217-JC-003				IA-38443-032218-GL-003		IA-38443-120514-GL-008		IA-38443-031012-JC-151		IA-38443-081112-GL-094		IA-38443-091113-GL-005		IA-38443-020714-JT-006		IA-38443-120514-GL-010		IA-38443-010712-JC-007		SS-38443-010712-JC-028	
Sample Date:		2/22/2017				3/22/2018		12/5/2014		3/10/2012		8/11/2012		9/11/2013		2/7/2014		12/5/2014		12/5/2014		1/7/2012	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels																			
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																		
																							a
Volatile Organic Compounds																							
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.13 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.035 U		
Benzene	ppbv	20	2	200	20	0.25	0.19 J	0.36	0.31	0.69	0.51 J	0.24	0.36	0.31	0.16 J								
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.059 J	0.073 J	0.042 J	0.038 U	0.041 J	0.19 U	0.038 U	0.038 U	0.17 J	0.031 U								
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.30 U	0.060 U	0.060 U	0.060 U	0.014 U								
Ethylbenzene	ppbv	2500	250	25000	2500	1.2	0.56	0.52	1.4	2.4	0.82 J	0.35	0.63	0.55	0.027 J								
m&p-Xylenes	ppbv	2000	200	20000	2000	5.2	2.0	1.7	5.9	7.3	3.0	1.1	2.2	1.9	0.059 J								
Naphthalene	ppbv	29	2.9	290	29	0.090 UJ	0.090 U	0.095 J	0.090 UJ	0.15 J	0.45 U	0.090 U	0.090 U	0.090 U	0.086 U								
o-Xylene	ppbv	2000	200	20000	2000	1.9	0.84	0.68	2.7	3.1	1.2	0.45	0.87	0.75	0.022 U								
Tetrachloroethene	ppbv	250	25	2500	250	0.061 J	0.041 J	0.11 J	0.17 J	0.23	0.20 U	0.049 J	0.080 J	0.092 J	0.011 U								
Trichloroethene	ppbv	20	2	200	20	0.32	0.12 J	0.036 U	0.15 J	0.065 J	0.18 U	0.036 U	0.036 U	0.036 U	0.030 U								
Vinyl chloride	ppbv	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U	0.029 U								

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:						OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	
Sample ID:						OA-38443-031012-JC-130	OA-38443-081112-GL-091	OA-38443-081112-GL-092	OA-38443-091113-GL-006	OA-38443-020714-JT-007	OA-38443-120514-GL-009	OA-38443-021116-GL-005	OA-38443-022217-JC-004	OA-38443-032218-GL-004	
Sample Date:						3/10/2012	8/11/2012	8/11/2012 Duplicate	9/11/2013	2/7/2014	12/5/2014	2/11/2016	2/22/2017	3/22/2018	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels											
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air										
		a	c	b	d										
Volatile Organic Compounds															
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	
Benzene	ppbv	20	2	200	20	0.14 J	0.071 J	0.065 J	0.38	0.25	0.36	0.33	0.25	0.18 J	
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 U	0.038 U	0.038 U	0.039 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.062 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	
Ethylbenzene	ppbv	2500	250	25000	2500	0.068 U	0.068 U	0.068 U	0.24	0.070 J	0.14 J	0.068 U	0.079 J	0.068 U	
m&p-Xylenes	ppbv	2000	200	20000	2000	0.12 U	0.12 U	0.20	0.95	0.22	0.43	0.18 J	0.28	0.12 U	
Naphthalene	ppbv	29	2.9	290	29	0.090 UJ	0.090 UJ	0.10 J	0.10 J	0.090 U	0.090 U	0.090 U	0.090 UJ	0.090 U	
o-Xylene	ppbv	2000	200	20000	2000	0.061 U	0.061 U	0.061 U	0.35	0.084 J	0.16 J	0.068 J	0.11 J	0.061 U	
Tetrachloroethene	ppbv	250	25	2500	250	0.060 J	0.040 U	0.040 U	0.041 U	0.040 U	0.077 J	0.040 U	0.087 J	0.040 U	
Trichloroethene	ppbv	20	2	200	20	0.036 U	0.036 U	0.036 U	0.037 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	
Vinyl chloride	ppbv	20	2	200	20	0.071 U	0.071 U	0.071 U	0.073 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		OA-24-2015				OA-24-EP6		SS-24-A		SS-24-A		SS-24-A		SS-24-B		SS-24-B		SS-24-B		SS-24-B	
Sample ID:		OA-38443-022015-GL-032				OA-38443-071615-6L-031		SS-38443-010712-JC-035		SS-38443-031012-JC-141		SS-38443-081112-GL-083		SS-38443-010712-JC-041		SS-38443-031012-JC-143		SS-38443-091112-GL-085		SS-38443-091113-GL-001	
Sample Date:		2/20/2015				7/16/2015		1/7/2012		3/10/2012		8/11/2012		1/7/2012		3/10/2012		8/11/2012		9/11/2013	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels																	
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																
		a	c	b	d																
Volatile Organic Compounds																					
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 UJ	0.026 U	0.18 U	0.052 U	0.026 U	0.12 U	0.026 U	0.026 U	0.026 U					0.052 U		
Benzene	ppbv	20	2	200	20	0.42 J	0.13 J	0.090 U	0.11 U	0.099 J	0.063 U	0.056 U	0.056 U	0.056 U					0.11 U		
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 UJ	0.038 U	0.16 U	0.076 U	0.090 J	0.11 U	0.070 J	0.075 J	0.076 U					0.076 U		
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 UJ	0.060 U	0.57 J	0.53	0.85	0.049 U	0.093 J	0.060 U	0.12 U							
Ethylbenzene	ppbv	2500	250	25000	2500	0.11 J	0.068 U	0.11 U	0.14 U	0.68	0.24 J	0.068 U	0.068 U	0.14 U							
m&p-Xylenes	ppbv	2000	200	20000	2000	0.34 J	0.19 J	0.24 U	0.24 U	2.5	0.41 J	0.12 U	0.18 J	0.24 U							
Naphthalene	ppbv	29	2.9	290	29	0.095 J	0.090 U	0.43 U	0.18 UJ	0.090 UJ	0.87 J	0.090 UJ	0.090 UJ	0.18 U							
o-Xylene	ppbv	2000	200	20000	2000	0.13 J	0.074 J	0.11 U	0.12 U	1.4	0.16 J	0.061 U	0.12 J	0.12 U							
Tetrachloroethene	ppbv	250	25	2500	250	0.040 UJ	0.040 U	25	30	39	90	73	130	25							
Trichloroethene	ppbv	20	2	200	20	0.036 UJ	0.036 U	8.2	7.7	10	37 ^a	30 ^a	48 ^a	6.5							
Vinyl chloride	ppbv	20	2	200	20	0.071 UJ	0.071 U	0.15 U	0.14 U	0.071 U	0.10 U	0.071 U	0.071 U	0.14 U							

Notes:
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		SS-24-B				SS-24-B		SS-24-B		SS-24-B		SS-24-B		SS-24-B		SS-24-B		SS-24-B		SS-24-C		SS-24-C			
Sample ID:		SS-38443-091113-GL-002				SS-38443-120514-GL-001		SS-38443-120514-GL-002		SDD-SS-24B-0215		SS-38443-022015-GL-029		SDD-SS-24B-0715		SS-38443-071615-6L-032		SS-38443-021116-GL-006		SS-38443-010712-JC-039		SS-38443-010712-JC-040			
Sample Date:		9/11/2013				12/5/2014		12/5/2014		2/20/2015		2/20/2015		7/16/2015		7/16/2015		2/11/2016		1/7/2012		1/7/2012			
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels		Duplicate		Duplicate														Duplicate			
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air																				
		a	c	b	d																				
Volatile Organic Compounds																									
1,1-Dichloroethane	ppbv	160	16	1600	160	0.052 U		0.10 U		0.10 U		0.58 U		0.026 U		0.34 U		0.052 U		0.052 U		0.035 U		0.035 U	
Benzene	ppbv	20	2	200	20	0.11 U		0.22 U		0.22 U		0.29 U		0.087 J		0.44 U		0.11 U		0.11 U		0.022 J		0.049 J	
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.076 U		0.15 U		0.15 U		0.28 U		0.038 U		0.28 U		0.076 U		0.076 U		0.031 U		0.031 U	
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.12 U		0.24 U		0.24 U		1.4 U		0.060 U		0.35 U		0.12 U		0.12 U		0.014 U		0.014 U	
Ethylbenzene	ppbv	2500	250	25000	2500	0.14 U		0.27 U		0.27 U		0.57 U		0.18 J		0.32 U		0.14 U		0.14 U		0.022 U		0.16 J	
m&p-Xylenes	ppbv	2000	200	20000	2000	0.24 U		0.48 U		0.48 U		1.2 U		0.83 J		0.69		0.24 U		0.24 U		0.062 J		0.39 J	
Naphthalene	ppbv	29	2.9	290	29	0.18 U		0.36 U		0.36 U		1.4 U		0.32 J		0.27 U		0.18 U		0.18 U		0.086 UJ		0.086 UJ	
o-Xylene	ppbv	2000	200	20000	2000	0.12 U		0.24 U		0.24 U		1.4 U		0.33		0.32 U		0.12 U		0.12 U		0.022 U		0.11 J	
Tetrachloroethene	ppbv	250	25	2500	250	29		59		49		78.3		57		40		34		82		15		15	
Trichloroethene	ppbv	20	2	200	20	7.1		22 ^a		21 ^a		33.7 ^a		23 ^a		14		9.8		26 ^a		0.99		1.1	
Vinyl chloride	ppbv	20	2	200	20	0.14 U		0.28 U		0.28 U		0.29 U		0.071 U		0.54 U		0.14 U		0.14 U		0.029 U		0.029 U	

Notes:

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:						SS-24-C	SS-24-C	SS-24-C	SS-24-D	SS-24-D	SS-24-D	SS-24-E	SS-24-E	SS-24-E	
Sample ID:						SS-38443-031012-JC-146	SS-38443-081112-GL-086	SS-38443-020714-JT-001	SS-38443-010712-JC-038	SS-38443-031012-JC-149	SS-38443-081112-GL-088	SS-38443-010712-JC-036	SS-38443-031012-JC-150	SS-38443-081112-GL-090	
Sample Date:						3/10/2012	8/11/2012	2/7/2014	1/7/2012	3/10/2012	8/11/2012	1/7/2012	3/10/2012	8/11/2012	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels											
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air										
		a	c	b	d										
Volatile Organic Compounds															
1,1-Dichloroethane	ppbv	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.35 U	0.026 U	0.026 U	0.070 U	0.026 U	0.026 U	
Benzene	ppbv	20	2	200	20	0.056 U	0.056 U	0.20	0.18 U	0.056 U	0.056 U	0.036 U	0.056 U	0.16 J	
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.038 U	0.038 U	0.039 J	0.31 U	0.038 U	0.038 U	0.062 U	0.038 U	0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.14 U	0.060 U	0.060 U	0.028 U	0.060 U	0.086 J	
Ethylbenzene	ppbv	2500	250	25000	2500	0.068 U	0.068 U	0.068 U	0.45 J	0.068 U	0.068 U	0.044 U	0.068 U	1.4	
m&p-Xylenes	ppbv	2000	200	20000	2000	0.12 U	0.22	0.13 J	1.6 J	0.34	0.17 J	0.096 U	0.12 U	4.1	
Naphthalene	ppbv	29	2.9	290	29	0.090 UJ	0.090 UJ	0.090 U	0.86 U	0.090 UJ	0.090 UJ	0.17 U	0.090 UJ	0.090 UJ	
o-Xylene	ppbv	2000	200	20000	2000	0.061 U	0.11 J	0.061 U	0.53 J	0.11 J	0.077 J	0.044 U	0.061 U	1.1	
Tetrachloroethene	ppbv	250	25	2500	250	15	12	13	4.1	4.7	8.5	5.4	7.3	14	
Trichloroethene	ppbv	20	2	200	20	0.87	0.63	1.1	0.30 U	0.036 U	0.036 U	0.060 U	0.036 U	1.2	
Vinyl chloride	ppbv	20	2	200	20	0.071 U	0.071 U	0.071 U	0.29 U	0.071 U	0.071 U	0.058 U	0.071 U	0.071 U	

Notes:
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2
Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:		SS-24-F				SS-24-F		SS-24-F	
Sample ID:		SS-38443-010712-JC-037				SS-38443-031012-JC-152		SS-38443-081112-GL-093	
Sample Date:		1/7/2012				3/10/2012		8/11/2012	
Parameters	Units	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels					
		Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air				
		a	c	b	d				
Volatile Organic Compounds									
1,1-Dichloroethane	ppbv	160	16	1600	160	0.035 U	0.026 U	0.026 U	
Benzene	ppbv	20	2	200	20	0.019 J	0.056 U	0.060 J	
Chloroform (Trichloromethane)	ppbv	800	80	8000	800	0.031 U	0.038 U	0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	3700	370	0.014 U	0.065 J	0.060 U	
Ethylbenzene	ppbv	2500	250	25000	2500	0.034 J	0.073 J	0.068 U	
m&p-Xylenes	ppbv	2000	200	20000	2000	0.069 J	0.24	0.12 U	
Naphthalene	ppbv	29	2.9	290	29	0.086 U	0.090 UJ	0.090 UJ	
o-Xylene	ppbv	2000	200	20000	2000	0.022 U	0.18 J	0.061 U	
Tetrachloroethene	ppbv	250	25	2500	250	0.73	0.63	2.0	
Trichloroethene	ppbv	20	2	200	20	0.11 J	0.036 U	0.10 J	
Vinyl chloride	ppbv	20	2	200	20	0.029 U	0.071 U	0.071 U	

Notes:
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.



June 8, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: May 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of May 1 through 31, 2018.

The next Progress Report for the month of June 2018 will be submitted on or before July 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in May 2018 are summarized below.

Groundwater investigative activities were completed, consisting of temporary monitoring well completion and sampling:

- Fourteen temporary monitoring wells including BH01-18, BH02-18, BH03-18, BH04-18, BH05-18, BH06-18, BH07-18, BH08-18, BH09-18, BH10-18, BH12-18, BH13-18, BH14-18, and BH20-18 were completed between May 7, 2018 and May 18, 2018.
- Fifteen groundwater samples (including field duplicates) were collected from 13 temporary monitoring well locations and submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), metals (total and dissolved), mercury, chloride, sulfate, nitrite and nitrate.
- Six of the 15 samples were submitted to TestAmerica for additional laboratory analyses of semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and cyanide. Three of the 15 samples were submitted to TestAmerica for additional laboratory analyses of pesticides, and herbicides.
- A groundwater sample from BH14-18 could not be collected due to the presence of dark-colored liquid in the temporary well.

The following soil/fill investigation activities were completed:

- Twenty-nine boreholes in the Southern Parcels (EU3 to EU8) were completed between May 8, 2018 and May 31, 2018.
- Forty-eight soil samples were submitted to TestAmerica for laboratory analyses of VOCs, SVOCs, PCBs, pesticides, metals including total chromium, chromium speciation, mercury, and cyanide. Laboratory analysis for chromium speciation was placed on hold pending the results of the total chromium analysis.

Twenty-one samples were submitted to TestAmerica for laboratory analysis of fractionated lead and placed on "HOLD" as detailed in the RI/FS Work Plan.

The following general activities were conducted:

- The results of VAS boreholes completed from December 2017 through February 2018 were submitted to the agencies in the GHD letter dated May 3, 2018.
- Site meetings were held with property owners/ representatives to discuss upcoming field activities on May 4, 2018 (Globe Equipment, Valley Asphalt) and May 5, 2018 [REDACTED] non-
- GHD received a Notice of Violation letter from Ohio EPA dated May 14, 2018, via email on May 21, 2018. This notice relates to three monitoring wells that may require repair or abandonment. Two of the wells (MW-217 and MW-228) are located on Valley Asphalt property and one well (MW-223B) is



located on DP&L property. MW-217 was uncovered and repaired with a new road box cover on May 31, 2018.

- GHD was notified (via e-mail from USEPA on May 31) of apparent ground disturbance in the area near Parcel 5175, now occupied by Dickinson Construction. GHD contacted the property owner representative to request information regarding site activities.

Removal Action ASAOC Developments

- GHD determined that a vacuum blower at parcel 5172 (Overstreet Painting, Building 12, EP-2) was not operating due to a tripped circuit breaker and contacted the property owner representative to request assistance. This was corrected by GHD on May 23, 2018 by re-setting the circuit breaker.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Site meeting on June 6 to discuss status of field investigation activities.
 - Continue data validation for soil/ fill samples collected to date.
 - Coordination and discussions with property owners regarding proposed soil/fill and groundwater sampling.
 - Follow-up with Dayton Power & Light (DP&L) regarding the summary of proposed groundwater sampling activities within their property, submitted on April 29, 2018.
 - Continue soil/fill sampling within the Central Parcels (EU9 to EU13) and Northern Parcels (EU15 and EU16).
 - Assess results of Quarry Pond survey and prepare report for agency submission.
 - Coordinate with property owner to locate one soil gas probe on or near Jim City salvage property (GP07-09) to identify repairs that are needed, if any, followed by field monitoring.



- Coordination with Valley Asphalt to locate and inspect one monitoring well (MW-228) to identify repairs that are needed, if any.
- Coordination with DP&L to locate and inspect one monitoring well (MW-223B) to identify repairs that are needed, if any.
- Prepare and submit well abandonment work plan as required by Ohio EPA letter dated May 14, 2018.
- Coordination with B&G Trucking (Parcel 5171) to complete test trench investigation (TT-42).
- Coordinate disposal of waste water from the on-Site Frac tank.
- Follow-up with property owner representative regarding ground disturbance near the Dickinson Construction facility.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. Quarterly SSDS inspection will be conducted in June.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

VC/cb/8

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Robin Lunn, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD



July 10, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
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77 West Jackson Boulevard
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Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: June 1 through 30, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of June 1 through 30, 2018.

The next Progress Report for the month of July 2018 will be submitted on or before August 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in June 2018 are summarized below.

The following groundwater investigative activities were completed:

- Water level monitoring was completed on 49 existing monitoring well locations that were accessible. Surface water elevations were also measured in the three ponds (small pond, large pond, and the Quarry Pond). Locations are shown on Figure 1 and groundwater elevations are provided in Table 1.

The following general activities were conducted:

- GHD held a Site meeting on June 6, 2018, with USEPA, Ohio EPA, and Jacobs to discuss the status of the field investigation activities.
- On June 6, 2018, GHD and a DP&L representative used a metal detector to identify the location of MW-223B on DP&L property. This location was paved over with asphalt and will be repaired as described below.
- GHD provided USEPA and Ohio EPA with the results of the Quarry Pond hydrographic survey in a letter dated June 11, 2018. GHD also provided an electronic link to download Attachment 2, Quarry Pond Features and Proposed Sampling Locations.
- GHD submitted a letter response including a Well Location and Decommissioning Work Plan to Ohio EPA on June 22, 2018 in order to address the Notice of Violation (NOV) dated May 18, 2018 related to three monitoring wells (MW-217, MW-223B and MW-228). Note that MW-217 (located on Valley Asphalt property) was repaired by GHD in May 2018. The two remaining wells are addressed in the work plan.

Removal Action ASAOC Developments

- On June 22, 2018, GHD completed sub-slab depressurization system (SSDS) inspections at buildings with an operating system, including Buildings 8 and 9 – B&G Equipment and Truck Repair, Building 12 – Overstreet Painting and S&J Precision, Building 14 – NexGen Vending, Building 15 – SIM Trainer, Building 17 – D. Dickinson Construction (formerly Megacity Construction), and Building 24 – Globe Manufacturing. GHD noted that two blowers were not operating, including: EP-3 at Building 24 (Globe Manufacturing) and EP-2 at Building 14 (NexGen Vending). GHD removed the non-operating blowers and returned them to the manufacturer for service.
- On June 28, 2018, GHD replaced the U-tube manometer at EP-2 and repaired an electrical switch that was providing power to EP-3, at Building 8 (B&G Equipment and Truck Repair).



Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples and groundwater samples collected to date.
 - Coordination and discussions with OU1 property owners regarding proposed soil/fill and groundwater sampling.
 - Coordination with MCD regarding proposed soil sampling within the floodplain area.
 - Coordination with Globe Equipment regarding proposed investigative activities within their property.
 - Coordination with DP&L regarding proposed investigative activities within their property.
 - Coordinate with property owner to locate one soil gas probe on Jim City salvage property (GP07-09) to identify repairs that are needed, if any, followed by field monitoring.
 - Implementation of Well Location and Decommissioning Work Plan following approval by Ohio EPA.
 - Coordinate disposal of waste water from the on-Site Frac tank.
- Follow-up with property owner representative regarding ground disturbance near the Dickinson Construction facility.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. The planned activities include:
 - Repair and/or replace blowers that require service, i.e., EP-3 at Building 24 (Globe Manufacturing) and EP-2 at Building 14 (NexGen Vending).
 - Complete annual proficiency sampling at Buildings 8 and 9 (B&G Trucking), and Building 12 (Overstreet Painting and S&J Precision) during the week of July 9 to July 13, 2018.



- Complete annual proficiency sampling at Building 14 (NexGen Vending), and Building 15 (SIM Trainer) during the week of July 23 to 27, 2018.
- Complete annual methane monitoring at Building 15 (SIM Trainer) during the week of July 23 to July 27, 2018.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

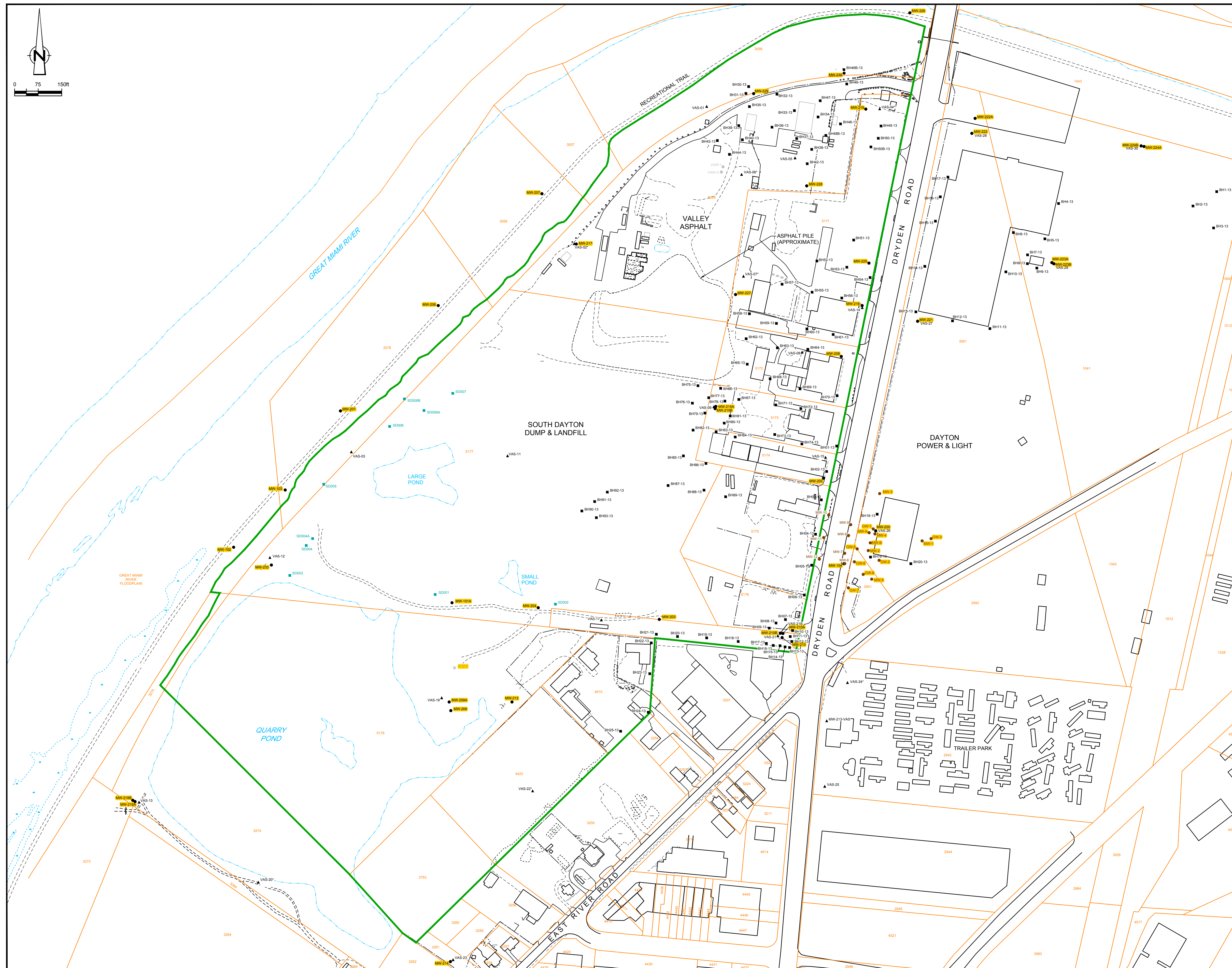
GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

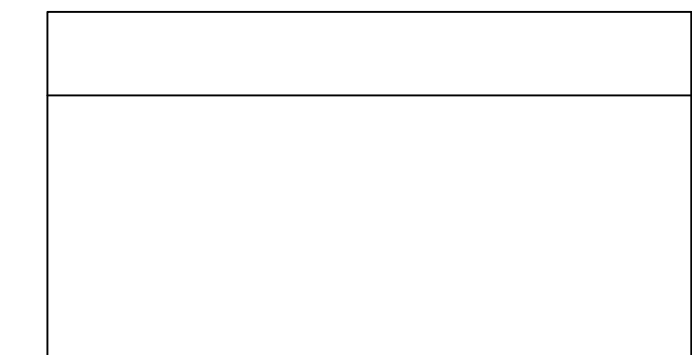
Julian Hayward

VC/cb/9

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
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Robin Lunn, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

[illegible]

- ### LEGEND
- EDGE OF WATER
 - PARCEL BOUNDARY
 - 3224 PARCEL NUMBER
 - OPERABLE UNIT ONE (OU1)
BOUNDARY (APPROXIMATE)
 - MW-206 ● MONITORING WELL LOCATION
 - MW-102 ● ABANDONED WELL LOCATION
 - MW-1 ● HISTORIC DP&L MONITORING WELL LOCATION
 - VAS-01 ● VERTICAL AQUIFER SAMPLING LOCATION
 - P211g ● PIEZOMETER LOCATION
 - SD003 ● PSARA SOIL BORING LOCATION (APPROXIMATE)
 - BH01-13 ■ BOREHOLE LOCATION (CRA 2013)
 - BH1-13 ■ BOREHOLE LOCATION (DPL 2013)
 - VAS LOCATION COMPLETED TO 70 FEET
BELOW GROUND SURFACE OR LESS
 - MW-100 ● Existing Monitoring Well Locations



SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



Approved

DRAWING STATUS

[illegible]

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

Existing Groundwater Investigation Locations
--



Source Reference:

Project Manager:	Reviewed By:	Date: DATE	
Scale: 1:150	Project No: 38443-102	Report No: PRES052	Drawing No: figure1

Table 1

**June 2018 Quarterly Groundwater Levels
South Dayton Dump Landfill
Moraine, Ohio**

Location	Coordinates ¹		Coordinates ¹		June 2018		Notes
	Easting	Northing	Latitude	Longitude	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	
GW-1	1485691.874	633281.0858	39.72613132	-84.21665677	no reading	no reading	Not recorded
GW-2	1485705.16	633197.1324	39.72590157	-84.21660387	no reading	no reading	Not recorded
GW-3	1485870.443	633265.9906	39.7260992	-84.21602099	no reading	no reading	Not recorded
GW-5	1485681.66	633137.26	39.72573601	-84.21668336	23.61	711.94	
GW-6	1485626.419	633192.3531	39.72588435	-84.21688345	23.51	710.91	
GW-7	1485607.5	633109.42	39.72565572	-84.21694509	24.09	710.98	
GW-8	1485654.661	633152.279	39.72577582	-84.21678035	24.03	710.89	
MW-101A	1484347.13	633062.054	39.72545983	-84.2214221	14.80	710.20	
MW-102	1483652.723	633238.7445	39.72590845	-84.22390248	7.51	710.12	
MW-103	1483816.626	633420.7896	39.72641673	-84.2233322	6.28	710.22	
MW-104	1485593.26	633186.27	39.72586592	-84.21700091	17.33	710.97	
MW-201	1483992.291	633672.4318	39.72711665	-84.22272483	5.16	710.09	
MW-202	1485528.312	633458.419	39.72660954	-84.21725018	22.26	710.82	
MW-203	1485006.228	633009.0361	39.72534878	-84.21907563	19.34	710.77	
MW-204	1484621.372	633046.2796	39.72543088	-84.22044619	12.06	710.63	
MW-206	1484303.391	634007.6271	39.7280530	-84.22164167	5.41	710.67	
MW-207	1484633.096	634363.2688	39.72904644	-84.22049372	5.42	710.91	
MW-208	1485584.91	633845.4	39.7276747	-84.21707515	22.88	710.99	
MW-209	1484343.343	632718.8287	39.72451753	-84.2214123	4.03	710.23	
MW-209A	1484337.977	632746.335	39.72459275	-84.22143324	4.40	710.24	
MW-210	1485396.75	632951.11	39.72521019	-84.21768353	21.64	710.86	
MW-210A	1485399.451	632964.3612	39.72524669	-84.21767483	23.15	710.39	
MW-210B	1485390.92	632965.07	39.72524819	-84.21770519	23.21	710.44	
MW-212	1484537.84	632746.3798	39.72460333	-84.2207228	18.58	710.25	
MW-214	1484342.04	631920.5035	39.72232617	-84.22136283	13.80	710.16	
MW-215A	1485186.15	633686.53	39.7272178	-84.21848191	23.71	710.92	
MW-215B	1485183.692	633679.6878	39.72719889	-84.21849018	24.07	710.62	
MW-216	1485650.98	634007.8	39.72812391	-84.21685126	21.56	710.52	
MW-217	1484742.267	634203.2315	39.72861287	-84.2200948	25.77	710.88	
MW-218A	1483339.088	632429.8057	39.72367159	-84.22496242	12.79	709.91	
MW-218B	1483331.813	632433.7651	39.72368208	-84.22498855	13.14	709.83	
MW-219	1485662.995	634632.6193	39.72983958	-84.21685079	24.27	711.07	
MW-220	1485694.491	633290.8171	39.72615817	-84.21664813	no reading	no reading	Truck Trailer parked on top of location
MW-221	1485827.648	633957.631	39.72799542	-84.21621985	25.39	710.45	
MW-222	1486000.221	634555.4041	39.72964523	-84.21564676	25.85	710.41	
MW-222A	1486010.546	634603.0346	39.7297765	-84.21561328	24.22	711.20	
MW-223A	1486254.372	634144.1623	39.72852968	-84.21471552	24.18	711.20	
MW-223B	1486261.004	634140.4521	39.72851984	-84.21469169	no reading	no reading	Covered by asphalt
MW-224A	1486547.567	634513.4156	39.72955851	-84.21369818	24.39	711.21	
MW-224B	1486538.414	634515.4484	39.72956361	-84.21373085	25.00	710.48	
MW-225	1485672.903	634142.6036	39.72849507	-84.21678244	20.03	711.11	
MW-226	1485803.058	634938.6383	39.73068686	-84.21637356	10.10	710.99	
MW-227	1485248.779	634042.6237	39.7281985	-84.21828336	28.13	710.97	
MW-228	1485475.109	634388.1852	39.72915883	-84.21750217	no reading	no reading	Underneath asphalt pile
MW-229	1485306.197	634681.8015	39.72995594	-84.21812249	25.73	710.95	
MW-230	1485592	634745.3	n/a	n/a	26.17	711.053	
MW-233	1483784	633208.7	n/a	n/a	19.9	710.179	
P-211	1484355.171	632855.2796	39.72489269	-84.22137950	4.96	710.76	
SMALL POND	n/a	n/a	n/a	n/a	1.08	710.40	
LARGE POND	n/a	n/a	n/a	n/a	15' below 3.380	no reading	
LAKE (Quarry Pond)	n/a	n/a	n/a	n/a	4.68	710.75	
MW-1	1485842.093	633258.8407	39.72607810	-84.21612128	24.00	711.13	
MW-2	1485670.65	633228.08	39.72598472	-84.21672863	24.07	711.08	
MW-3	1485707.036	633409.4029	39.72648432	-84.21661155	24.16	711.87	
MW-4	1485692.08	633281.02	39.72613115	-84.21665604	24.34	711.03	
MW-5					24.51		
MW-A	1485673.56	633284.93	39.72614092	-84.21672213	24.07	711.05	
MW-B	1485677.26	633252.64	39.72605248	-84.2167068	24.49	710.94	

Notes:

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

ft BREF - feet below reference

ft AMSL - feet above mean sea level

* Reference point is Top Of Riser at each monitoring well

* Reference point is Top of Staff Gauge at the Large, Small and Quarry Pond



August 7, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: July 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of July 1 through 31, 2018.

The next Progress Report for the month of August 2018 will be submitted on or before September 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in July 2018 are summarized below.

- GHD conducted miscellaneous preparation activities associated with upcoming field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, and communication with agency personnel.
- GHD submitted electronic database files to USEPA on July 5 pursuant to ASAOC requirements for Electronic Data Deliverables (EDD). This includes analytical data collected through end of 2016.
- USEPA provided comments on July 10 regarding proposed Quarry Pond sampling locations, including re-locating one proposed surface water sample location based on the bathymetry survey.
- GHD attempted to locate and uncover soil gas probe GP07-09 on Jim City property (Parcel 3753) using ground penetrating radar and hand digging tools on July 11 and July 30 without success. As a result, GHD made preparations to construct a replacement soil gas probe.
- GHD re-staked proposed soil sample locations (13 total) along the GMR floodplain based on topographic low lying drainage pathways (following grass cutting by Miami Conservancy District). The locations were reviewed with the USEPA contractor (Jacobs) in the field on July 12.
- GHD coordinated the removal and disposal of investigation-derived wastewater from the on-Site Frac tank to Valicor in Middletown, Ohio, on July 30.
- GHD's drilling subcontractor mobilized direct push technology (DPT) equipment to the Site on July 31 to conduct groundwater sampling and construction of soil gas probes and monitoring wells.
- GHD's drilling subcontractor installed one new soil gas probe (GP34) located at Globe Equipment on July 31.

Removal Action ASAOC Developments

- On July 9, 2018, GHD replaced blowers that required service including EP-3 at Building 24 (Globe Equipment) and EP-2 at Building 14 (NexGen Vending).
- On July 12, 2018, GHD completed annual proficiency sampling at Buildings 8 and 9 (B&G Trucking).
- On July 13, 2018, GHD completed annual proficiency sampling at Building 12 (Overstreet Painting and S&J Precision).
- On July 24, 2018, GHD completed annual proficiency sampling at Building 14 (NexGen Vending).
- On July 25, 2018, GHD completed annual proficiency sampling and annual methane monitoring at Building 15 (SIM Trainer).



Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples and groundwater samples collected to date.
 - Coordination and discussions with property owners regarding proposed investigation activities.
 - Collect floodplain soil samples from MCD floodplain area adjacent to OU1.
 - Install one replacement soil gas probe (for GP07-09) at Jim City property.
 - Conduct soil gas probe field monitoring and TO-15 sampling for new and existing soil gas probes.
 - Install two new monitoring wells including MW-234 located on Parcel 3274 and MW-235 located on Parcel 5173.
 - Develop newly installed monitoring wells (MW-230, MW-233, MW-234, and MW-235).
 - Install temporary monitoring wells and conduct groundwater sampling at BH-11 located at Globe Equipment.
 - Mobilize rotosonic drilling contractor to conduct vertical aquifer sampling (VAS) at multiple locations, within OU1 and outside of OU1.
 - Implementation of Well Location and Decommissioning Work Plan following approval by Ohio EPA.
- Follow-up with property owner representative regarding ground disturbance near the Dickinson Construction facility.



- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. The planned activities include:
 - Data review and validation for annual proficiency samples collected from Buildings 8, 9, 12, 14 and 15, when received from the laboratory

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/cb/10

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
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Wray Blattner, Thompson Hine
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD



September 10, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
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60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: August 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of August 1 through 31, 2018.

The next Progress Report for the month of September 2018 will be submitted on or before October 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in August 2018 are summarized below.

- The following soil gas investigation activities were completed:
 - Soil gas probe GP07-18 located at Jim City Salvage property was installed on August 1, 2018, to replace GP07-09 which could not be located.
 - Field parameter monitoring for organic vapors, carbon dioxide, oxygen, methane, hydrogen sulfide, and explosive gases/lower explosive limit was conducted on 32 of 33 GHD soil gas probe locations and four of seven USEPA soil gas probe locations. Methane readings above the lower explosive limit (LEL) were recorded at the following locations: GP01-18, GP02-09, GP07-18, GP19-18, GP21-09, GP25-18, GP26-18, and GP28-18. Existing soil gas probe locations are shown on Figure 1.
 - One USEPA soil gas probe location (GP-2) located adjacent to the DP&L transportation building and former UST area was not included in the field monitoring program based on USEPA approval of GHD's Technical Report: GP-2 Methane Monitoring Summary & Assessment, South Dayton Dump and Landfill Site and Revision 1, Addendum 2 of the VI Mitigation Work Plan, provided on December 12, 2016.
 - Soil gas probe sampling for TO-15 analysis was conducted on 32 of 33 GHD soil gas probe locations. GHD was unable to collect a soil gas sample from GP08-09 since there was insufficient soil gas flow. Laboratory results for the TO-15 analysis are due in September 2018.
- The following groundwater investigation activities were completed, consisting of monitoring well installation and development, temporary monitoring well completion and sampling, and vertical aquifer sampling:
 - Monitoring well MW-234 was installed on Miami Conservancy District (MCD) property (Parcel 3274) on August 2, 2018 and MW-235 was installed at SIM Trainer (Parcel 5173) on August 3, 2018.
 - Monitoring wells MW-230 and MW-233 were developed on August 8, 2018.
 - One temporary monitoring well (BH11-18) was completed at Globe Equipment property (Parcel 3207) between July 31 and August 2, 2018. Four groundwater samples (including field duplicates) were collected from two depth intervals at and submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (total and dissolved), cyanide, chloride, sulfate, nitrite and nitrate.
 - Vertical Aquifer Sampling (VAS) drilling equipment was mobilized to the Dayton Power & Light (DP&L) property on August 14, 2018. VAS-42 was completed on August 22, 2018 and VAS-43 was completed on August 31, 2018.



- Twenty-seven samples (excluding QA/QC) from the two VAS locations at DP&L property were submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved) including mercury, chloride, sulfate, nitrite and nitrate.
- Decontamination and purge water were placed in a frac tank, staged on Site, pending waste characterization and disposal.
- The following soil/fill investigation activities were completed:
 - Thirty soil/fill samples (including QA/QC) were collected from depths intervals of 0 to 0.5 ft bgs and 0.5 to 2 ft bgs at 12 locations along the Great Miami River (GMR) floodplain and submitted to TestAmerica for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, herbicides, metals including mercury, and cyanide.
 - Soil samples could not be collected from one location (SS-176), due to the presence of standing water.
- On August 3, 2018 GHD received a letter from Ohio EPA dated July 23, 2018 providing comments on the Well Location and Decommissioning Work Plan submitted by GHD on June 22, 2018.
- On August 13, 2018, GHD submitted a letter summary of the Phase 1B Groundwater Sampling Results collected from the temporary monitoring well locations in May 2018.
- Regarding the ground disturbance that was previously observed in the vicinity of Dickinson Construction (tenant), GHD was informed by Mark Fornes (as representative of the property owner) that the tenant has ceased this activity.
- GHD conducted miscellaneous preparation activities associated with upcoming field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, and communication with agency personnel.

Removal Action ASAOOC Developments

As stated in the previous monthly report, GHD completed annual proficiency sampling at Buildings 8 and 9 (B&G Trucking) on July 12, 2018, at Building 12 (Overstreet Painting and S&J Precision) on July 13, 2018, at Building 14 (NexGen Vending) on July 24, 2018, and at Building 15 (SIM Trainer) on July 25, 2018. GHD received analytical results for the July sampling event and conducted laboratory data validation in August 2018. The analytical results from January 2012 through July 2018 for Buildings 8, 9, 12, 14 and 15 are provided in Tables 1 to 5, respectively. The results from the July 2018 sampling event are summarized as follows.

- Concentrations of trichloroethylene (TCE) in one sub-slab location at each of Buildings 8 and 9 (B&G Trucking) were greater than Ohio Department of Health (ODH) screening levels; however, concentrations of TCE at corresponding indoor air locations at Building 8 were less than ODH screening levels and TCE was not detected in Building 9 indoor air samples indicating the sub-slab depressurization systems (SSDSs) are successfully operating to mitigate vapor intrusion.



Concentrations of benzene at one indoor air location at Building 8 was greater than the ODH screening level. However, the benzene concentrations in sub-slab samples at Building 8 are below screening levels (or non-detect) indicating a source of benzene to indoor air unrelated to sub-slab conditions.

- The concentration of TCE in one sub-slab location at Building 12 (S&J Precision) was greater than the ODH screening level; however, concentrations of TCE in indoor air samples were less than ODH screening levels indicating the SSDS is successfully operating to mitigate vapor intrusion.
- Concentrations of TCE at two sub-slab locations and one indoor air location at Building 12 (Overstreet Painting) were greater than the ODH screening levels, and is subject to further assessment. Concentrations of benzene in two indoor air samples were greater than ODH screening levels. However, the benzene concentrations in sub-slab samples at Building 12 (Overstreet Painting) are below screening levels (or non-detect) indicating a source of benzene to indoor air unrelated to sub-slab conditions.
- Concentrations of TCE and 1,1-dichloroethane (1,1-DCA) at one sub-slab location at Building 14 (NexGen Vending) were greater than their respective ODH screening levels; however, these compounds were not detected in indoor air samples indicating the SSDS is successfully operating to mitigate vapor intrusion. Concentrations of benzene in two indoor air samples were greater than ODH screening levels. However, the benzene concentrations in sub-slab samples at Building 14 are below screening levels (or non-detect), with the exception of one sample collected in 2012, indicating a source of benzene to indoor air unrelated to sub-slab conditions.
- Analytical results from the July 2018 sampling event for Building 15 (SIM Trainer) did not have any exceedances of the ODH site-specific criteria, in either sub-slab or indoor air samples. Also note that GHD completed annual methane monitoring at Building 15 (SIM Trainer) on July 25, 2018 in accordance with Addendum 2 of the Vapor Intrusion (VI) Work Plan (GHD, 2015). Methane was not detected in Building 15 during the annual monitoring event. Building 15 methane monitoring results are provided in Table 6.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.



Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples and groundwater samples collected to date.
 - Coordination and discussions with property owners regarding proposed investigation activities.
 - Continue Quarry Pond investigation including surface water and sediment sampling.
 - Continue soil gas investigation including pressure monitoring on all soil gas probes, additional methane monitoring (filtered and unfiltered) on eight soil gas probes (GP01-18, GP02-09, GP07-18, GP19-09, GP21-09, GP25-18, GP26-18, GP28-18), and attempting to clear the screen for soil gas probe GP08-09.
 - Conduct quarterly water level readings at existing monitoring wells.
 - Develop newly installed monitoring wells (MW-234, and MW-235).
 - Complete installation and groundwater sampling at temporary monitoring well locations BH-15 and BH16 located at DP&L.
 - Continue VAS investigation at locations within DP&L property, and other proposed locations, within OU1 and outside of OU1.
 - Implementation of Well Location and Decommissioning Work Plan including locating and repairing MW-223B at DP&L property.
- Provide response to Ohio EPA letter dated July 23, 2018 regarding the Well Location and Decommissioning Work Plan.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. The planned activities include:
 - Sub-slab depressurization (SSD) system inspections and further assessment of TCE detection at Building 12 (Overstreet Painting).



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/cb/11

cc: (all by pdf) Ken Brown, ITW
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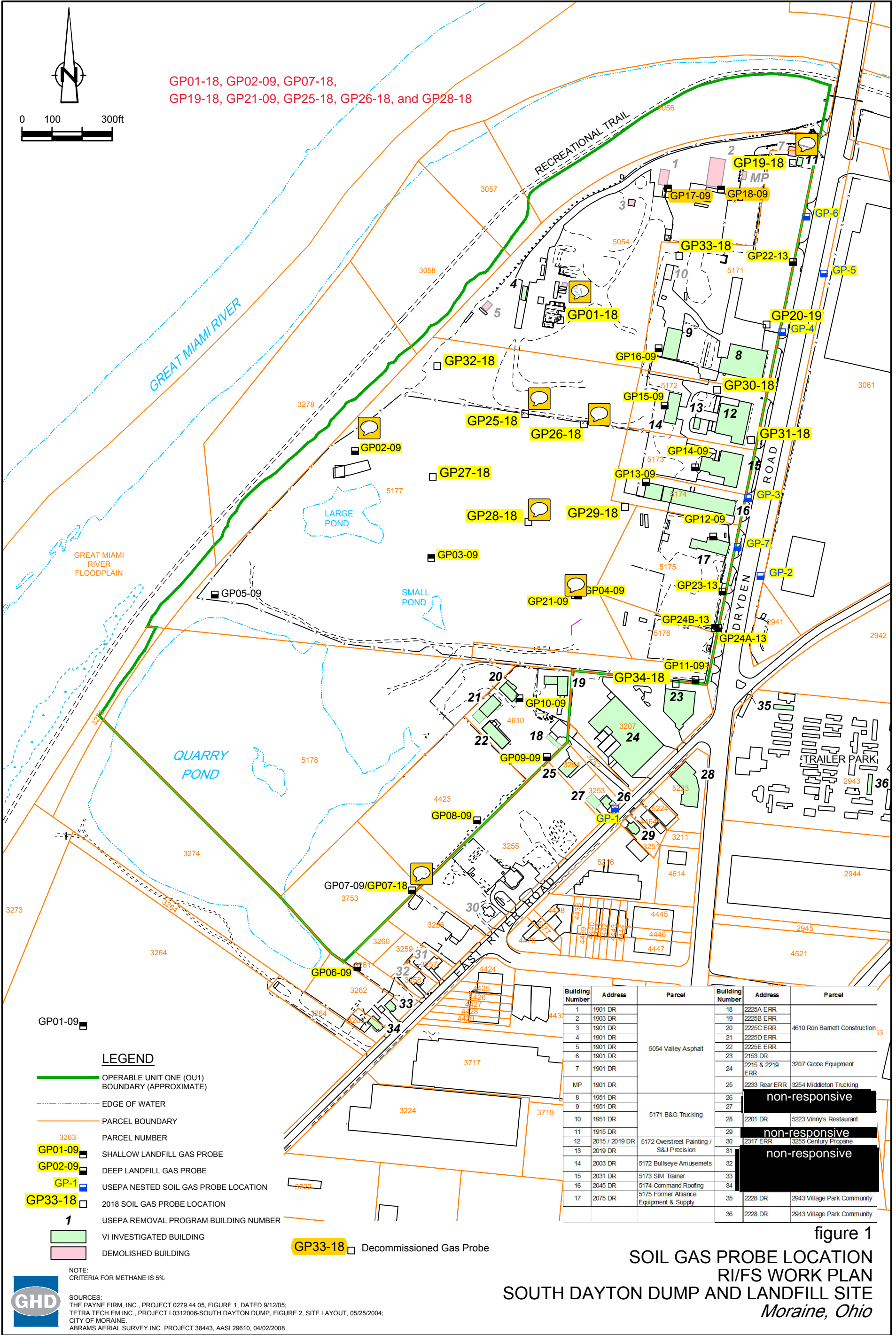


figure 1
SOIL GAS PROBE LOCATION
RI/FS WORK PLAN
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				IA-8-A		IA-8-A		IA-8-A		IA-8-A		IA-8-A		IA-8-A		IA-8-C		IA-8-C		IA-8-C		IA-8-D			
Sample ID:				IA-38443-091213-GL-009		IA-38443-010914-GL-001		IA-38443-021715-GL-002		IA-38443-071515-6L-023		IA-38443-041316-GL-003		IA-38443-071017-GL-003		IA-38443-071218-JC-007		IA-38443-031412-JC-186		IA-38443-080712-GL-064		IA-38443-091213-GL-011		IA-38443-091213-GL-010	
Sample Date:				9/12/2013		1/9/2014		2/17/2015		7/15/2015		4/13/2016		7/10/2017		7/12/2018		3/14/2012		8/7/2012		9/12/2013		9/12/2013	
Parameters				ODH Non-Residential Screening Levels																					
				Units	Sub-Slab Soil Gas	Indoor Air																			
				a	b																				
Volatile Organic Compounds																									
1,1-Dichloroethane				ppbv	160	16	0.026 U	0.24 U	0.13 U	0.026 U	1.8 U	0.026 U	0.026 U	0.95 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene				ppbv	20	2	0.15 J	1.6 J	8.0 ^b	0.63	46 ^b	0.14 J	0.13 J	20 ^b	0.44	0.38	0.55								
Chloroform (Trichloromethane)				ppbv	800	80	0.038 U	0.35 U	0.19 U	0.038 U	2.7 U	0.038 U	0.038 U	1.4 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene				ppbv	370	37	0.060 U	0.55 U	0.30 U	0.060 U	4.2 U	0.060 U	0.060 U	2.2 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene				ppbv	2500	250	0.29	21	17	0.33	20	0.073 J	0.32	34	1.1	6.6	7.1								
m&p-Xylenes				ppbv	2000	200	1.2	100	72	1.7	85	0.31	1.4	140	3.7	28	31								
Naphthalene				ppbv	29	2.9	0.090 U	0.97 J	0.82 J	0.090 U	6.4 U	0.28 J	0.090 U	3.3 U	0.090 U	0.45 J	0.62								
o-Xylene				ppbv	2000	200	0.65	44	28	0.86	32	0.11 J	0.81	44	1.1	15	17								
Tetrachloroethene				ppbv	250	25	0.040 U	0.36 U	0.20 U	0.040 U	2.8 U	0.076 J	0.22	1.5 U	0.062 J	0.23	0.36								
Trichloroethene				ppbv	20	2	0.036 U	0.33 U	1.7	0.036 U	2.5 U	0.12 J	0.036 U	1.5 J	0.12 J	0.076 J	0.052 J								
Vinyl chloride				ppbv	20	2	0.071 U	0.65 U	0.36 U	0.071 U	5.0 U	0.071 U	0.071 U	2.6 U	0.071 U	0.071 U	0.071 U								

Notes:

J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			IA-8-D	IA-8-D	IA-8-D	IA-8-D	IA-8-D	IA-8-D	IA-8-D	IA-8-D	IA-8-F	IA-8-F	IA-8-F	IA-8-F
Sample ID:			IA-38443-010914-GL-003	IA-38443-021715-GL-003	SDD-IA-8D-0215	IA-38443-071515-6L-026	IA-38443-041316-GL-006	IA-38443-071017-GL-007	IA-38443-071218-JC-001	IA-38443-031412-JC-190	IA-38443-080712-GL-067	IA-38443-080712-GL-068	IA-38443-091213-GL-012	
Sample Date:			1/9/2014	2/17/2015	2/17/2015	7/15/2015	4/13/2016	7/10/2017	7/12/2018	3/14/2012	8/7/2012	8/7/2012	9/12/2013	
Parameters	ODH Non-Residential Screening Levels													
	Units	Sub-Slab Soil Gas	Indoor Air											
		a	b											
		Duplicate												
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.26 U	0.13 U	0.27 U	0.052 U	5.0 U	0.026 U	0.026 U	0.99 U	0.026 U	0.026 U	
Benzene	ppbv	20	2	2.3 ^b	7.3 ^b	9.1 ^b	0.34 J	64 ^b	0.46	0.056 U	13 ^b	0.99	0.79	
Chloroform (Trichloromethane)	ppbv	800	80	0.38 U	0.19 U	0.14 U	0.076 U	7.3 U	0.038 U	0.061 J	1.4 U	0.091 J	0.067 J	
cis-1,2-Dichloroethene	ppbv	370	37	0.60 U	0.30 U	0.69 U	0.12 U	12 U	0.060 U	0.060 U	2.3 U	0.060 U	0.25	
Ethylbenzene	ppbv	2500	250	41	19	25.4	7.6	18 J	2.4	0.068 U	27	9.5	7.6	
m&p-Xylenes	ppbv	2000	200	190	77	74.3	43	72	13	0.12 U	110	36	32	
Naphthalene	ppbv	29	2.9	1.5 J	0.45 U	0.69 U	0.39 J	17 U	0.36 J	0.090 U	3.4 U	0.090 UJ	0.096 J	
o-Xylene	ppbv	2000	200	76	28	37.2	25	26 J	5.8	0.061 U	33	8.5	8.4	
Tetrachloroethene	ppbv	250	25	0.40 U	0.20 U	0.14 U	0.080 U	7.7 U	0.066 J	0.061 J	1.5 U	0.13 J	0.076 J	
Trichloroethene	ppbv	20	2	0.38 J	0.32 J	0.44	0.072 U	7.0 U	0.036 U	0.036 U	1.4 U	0.96	0.89	
Vinyl chloride	ppbv	20	2	0.71 U	0.36 U	0.14 U	0.14 U	14 U	0.071 U	0.071 U	2.7 U	0.071 U	0.071 U	

Notes:

J Estimated concentration

NJ Tentatively identified compound, estimated concentration

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:														
Sample ID:														
Sample Date:														
				IA-8-F	IA-8-F	IA-8-F	IA-8-F	IA-8-F	IA-8-F	IA-8-Office	IA-8-Office	IA-8-Office	IA-8-Office	IA-8-Office
				IA-38443-010914-GL-006	IA-38443-021715-GL-004	IA-38443-071515-6L-021	IA-38443-041316-GL-007	IA-38443-071017-GL-006	IA-38443-071218-JC-004	IA-38443-031412-JC-183	IA-38443-080712-GL-061	IA-38443-091213-GL-013	IA-38443-010914-GL-007	IA-38443-041316-GL-008
				1/9/2014	2/17/2015	7/15/2015	4/13/2016	7/10/2017	7/12/2018	3/14/2012	8/7/2012	9/12/2013	1/9/2014	4/13/2016
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas	Indoor Air											
		a	b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.065 UJ	0.026 U	0.10 U	2.4 U	0.026 U	0.026 U	6.1 U	0.026 U	0.026 U	0.26 U	4.4 U
Benzene	ppbv	20	2	0.52 J	2.0	3.4 ^b	37 ^b	0.79	2.7 ^b	26 J ^b	0.41	0.23	2.4 ^b	39 ^b
Chloroform (Trichloromethane)	ppbv	800	80	0.095 UJ	0.038 U	0.15 U	3.5 U	0.060 U	0.12 J	9.0 U	0.043 J	0.059 J	0.38 U	6.4 U
cis-1,2-Dichloroethene	ppbv	370	37	0.15 UJ	0.060 U	0.24 U	5.5 U	0.060 U	0.060 U	14 U	0.060 U	0.060 U	0.60 U	10 U
Ethylbenzene	ppbv	2500	250	12 J	4.4	26	37	4.3	31	22 J	3.8	2.9	28	13 J
m&p-Xylenes	ppbv	2000	200	56 J	19	100	160	19	130	89	15	12	130	54
Naphthalene	ppbv	29	2.9	0.27 J	0.25 J	0.36 U	8.2 U	0.36 J	0.29 J	21 U	0.090 U	0.39 J	1.4 J	15 U
o-Xylene	ppbv	2000	200	18 J	6.9	33	52	6.1	33	30 J	4.3	4.6	54	20 J
Tetrachloroethene	ppbv	250	25	0.10 UJ	0.055 J	2.1	3.7 U	0.063 J	0.074 J	9.5 U	0.040 U	0.091 J	0.40 U	6.8 U
Trichloroethene	ppbv	20	2	0.14 J	0.17 J	0.24 J	3.3 U	0.087 J	0.11 J	8.5 U	0.29	0.057 J	0.36 U	6.1 U
Vinyl chloride	ppbv	20	2	0.18 UJ	0.071 U	0.28 U	6.5 U	0.071 U	0.071 U	17 U	0.071 U	0.071 U	0.71 U	12 U

Notes:

J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				IA-8-Office	IA-8-Office	OA-8	OA-8	OA-8	OA-8	OA-8-2015	OA-8-2015	OA-8-2015	OA-8-2015
Sample ID:				IA-38443-071017-GL-005	IA-38443-071218-JC-006	OA-38443-031412-JC-182	OA-38443-080712-GL-059	OA-38443-010914-GL-008	OA-38443-071515-6L-019	OA-38443-021715-GL-009	OA-38443-100615-GL-004	OA-38443-041316-GL-009	OA-38443-071017-GL-004
Sample Date:				7/10/2017	7/12/2018	3/14/2012	8/7/2012	1/9/2014	7/15/2015	2/17/2015	10/6/2015	4/13/2016	7/10/2017
Parameters	Units	ODH Non-Residential Screening Levels											
		Sub-Slab Soil Gas a	Indoor Air b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	20	2	0.19 J	1.4	0.41	0.30	0.25	0.098 J	0.32	0.38	0.19 J	0.13 J
Chloroform (Trichloromethane)	ppbv	800	80	0.049 U	0.079 J	0.17 J	0.042 J	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	2500	250	0.52	14	0.16 J	1.9	0.16 J	0.073 J	0.068 J	0.59	0.068 U	0.068 U
m&p-Xylenes	ppbv	2000	200	2.4	58	0.52	8.2	0.59	0.27	0.19 J	3.1	0.18 J	0.24
Naphthalene	ppbv	29	2.9	0.15 J	0.36 J	0.090 U	0.090 UJ	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
o-Xylene	ppbv	2000	200	0.89	19	0.19 J	2.5	0.22	0.093 J	0.069 J	1.8	0.065 J	0.090 J
Tetrachloroethene	ppbv	250	25	0.062 J	0.040 U	0.18 J	0.040 U	0.040 U	0.040 U	0.040 U	0.065 J	0.048 J	0.069 J
Trichloroethene	ppbv	20	2	0.077 J	0.070 J	0.052 J	0.072 J	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.094 J
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	2.0	0.071 U	0.071 U

Notes:

J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				OA-8-2015	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A
Sample ID:				OA-38443-071218-JC-005	SS-38443-011112-JC-069	SS-38443-031412-JC-184	SS-38443-080712-GL-060	SS-38443-091213-GL-014	SS-38443-010914-GL-002	SS-38443-031014-JT-005	SDD-SS-8A-0215	SS-38443-021715-GL-001	SDD-SS-8A-0715	SS-38443-071515-6L-022
Sample Date:				7/12/2018	1/11/2012	3/14/2012	8/7/2012	9/12/2013	1/9/2014	3/10/2014	2/17/2015	2/17/2015	7/15/2015	7/15/2015
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas	Indoor Air											
		a	b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.026 U	2.8 U	2.8 U	0.25 J	0.81 U	0.26 U	0.26 U	0.29 U	0.13 U	9.1 U	1.5 U
Benzene	ppbv	20	2	0.14 J	1.5 U	6.0 U	1.1 J	1.8 U	0.56 U	1.5 J	0.65	0.57 J	12 U	3.2 U
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	16	17 J	25	9.8	2.2	3.9	1.9	1.8	14	7.3 J
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	27	28	48	110	17	20	16.3	13	72	29
Ethylbenzene	ppbv	2500	250	0.10 J	1.8 U	7.3 U	0.54 U	2.1 U	0.97 J	0.68 U	6.6	4.4	8.5 U	3.9 U
m&p-Xylenes	ppbv	2000	200	0.45	3.9 U	13 U	1.4 J	5.2 J	4.3	1.2 J	38.3	26	17 U	6.9 U
Naphthalene	ppbv	29	2.9	0.090 U	6.9 UJ	9.6 U	0.72 UJ	2.8 U	0.90 UJ	0.90 U	0.94	0.45 U	7.0 U	5.2 U
o-Xylene	ppbv	2000	200	0.24	1.8 U	6.5 U	0.69 J	1.9 U	1.7 J	0.61 U	27.4	20	8.5 U	3.5 U
Tetrachloroethene	ppbv	250	25	0.32	8.5 J	7.8 J	15	15	3.3	3.1	3	2.2	17	7.1 J
Trichloroethene	ppbv	20	2	0.060 J	1400 ^a	960 ^a	1800 ^a	780 ^a	220 ^a	240 ^a	158 ^a	160 ^a	1400 ^a	480 ^a
Vinyl chloride	ppbv	20	2	0.071 U	2.3 U	7.6 U	0.57 U	2.2 U	0.71 U	0.71 U	0.15 U	0.36 U	14 U	4.1 U

Notes:

J Estimated concentration

NJ Tentatively identified compound, estimated concentration

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-B	SS-8-B	SS-8-B
Sample ID:				SS-38443-100615-GL-001	SS-38443-041316-GL-001	SS-38443-041316-GL-002	SS-38443-071017-GL-001	SS-38443-071017-GL-002	SS-38443-071218-JC-002	SS-38443-071218-JC-003	SS-38443-011112-JC-065	SS-38443-031412-JC-185	SS-38443-080712-GL-062
Sample Date:				10/6/2015	4/13/2016	4/13/2016	7/10/2017	7/10/2017	7/12/2018	7/12/2018	1/11/2012	3/14/2012	8/7/2012
Parameters	Units	ODH Non-Residential Screening Levels											
		Sub-Slab Soil Gas	Indoor Air										
		a	b			Duplicate		Duplicate		Duplicate			
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	3.4 U	0.63 U	2.3 U	0.70 U	0.69 U	0.47 U	1.6 U	0.10 U	0.13 U	0.26 U
Benzene	ppbv	20	2	7.4 U	2.2 J	9.6 J	1.5 U	1.5 U	1.0 U	3.4 U	0.13 J	1.1	0.74 J
Chloroform (Trichloromethane)	ppbv	800	80	20 J	3.6 J	3.4 U	10	8.1	8.9	9.8 J	0.74	1.0	2.3
cis-1,2-Dichloroethene	ppbv	370	37	130	26	24	74	66	74	75	0.49 J	0.55 J	1.4 J
Ethylbenzene	ppbv	2500	250	9.0 U	6.1	6.0 U	1.8 U	1.8 U	1.2 U	4.1 U	0.80	0.34 U	1.0 J
m&p-Xylenes	ppbv	2000	200	16 U	44	31	3.2 U	3.2 U	2.8 J	7.2 U	1.1 J	0.60 U	4.1
Naphthalene	ppbv	29	2.9	12 U	3.2 J	8.0 U	2.4 U	2.4 U	1.6 U	5.4 U	0.26 U	0.45 U	0.90 U
o-Xylene	ppbv	2000	200	8.0 U	38 J	23 J	1.6 U	1.6 U	1.4 J	4.4 J	0.40 J	0.30 U	1.8 J
Tetrachloroethene	ppbv	250	25	19 J	5.0	3.8 J	12	11	61 J	15 J	76	79	220
Trichloroethene	ppbv	20	2	1400 ^a	310 ^a	320 ^a	830 ^a	730 ^a	1200 ^a	1100 ^a	31 ^a	26 ^a	95 ^a
Vinyl chloride	ppbv	20	2	9.4 U	1.7 U	6.3 U	1.9 U	1.9 U	1.3 U	4.3 U	0.087 U	0.36 U	0.71 U

Notes:

J Estimated concentration

NJ Tentatively identified compound, estimated concentration

U Not detected at the associated reporting limit

UU Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-8-B	SS-8-B	SS-8-B	SS-8-C	SS-8-C	SS-8-C	SS-8-D	SS-8-D	SS-8-D	SS-8-D
Sample ID:				SS-38443-100615-GL-002	SS-38443-100615-GL-003	SS-38443-041316-GL-004	SS-38443-011112-JC-066	SS-38443-031412-JC-187	SS-38443-080712-GL-063	SS-38443-011112-JC-064	SS-38443-031412-JC-188	SS-38443-031412-JC-189	SS-38443-080712-GL-065
Sample Date:				10/6/2015	10/6/2015	4/13/2016	1/11/2012	3/14/2012	8/7/2012	1/11/2012	3/14/2012	3/14/2012	8/7/2012
Parameters	Units	ODH Non-Residential Screening Levels		Duplicate								Duplicate	
		Sub-Slab Soil Gas	Indoor Air										
		a	b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	0.26 U	0.26 U	0.065 U	0.076 J	0.28 U	0.22 J	0.69 U	0.75 U	0.75 U	1.0 U
Benzene	ppbv	20	2	0.56 U	0.56 U	1.9	0.077 J	0.59 U	0.28 U	0.35 U	1.6 U	1.6 U	2.2 U
Chloroform (Trichloromethane)	ppbv	800	80	2.1	2.2	0.14 J	0.89	1.4 J	3.3	3.8 J	4.9 J	5.0 J	7.4 J
cis-1,2-Dichloroethene	ppbv	370	37	1.0 J	0.81 J	0.15 U	1.7	2.7	5.0	10	13	14	20
Ethylbenzene	ppbv	2500	250	0.68 U	0.68 U	1.8	0.10 J	0.72 U	0.34 U	0.43 U	2.0 U	2.0 U	2.7 U
m&p-Xylenes	ppbv	2000	200	1.2 U	1.2 U	8.4	0.42 J	1.3 U	0.60 U	0.95 U	3.4 U	3.4 U	4.7 U
Naphthalene	ppbv	29	2.9	0.90 U	0.90 U	0.23 U	0.13 UJ	0.95 U	0.45 U	1.7 UJ	2.6 U	2.6 U	3.5 U
o-Xylene	ppbv	2000	200	0.61 U	0.61 U	4.0	0.15 J	0.65 U	0.30 U	0.43 U	1.8 U	1.8 U	2.4 U
Tetrachloroethene	ppbv	250	25	170	170	22	21	32	78	8.4	14	11	28
Trichloroethene	ppbv	20	2	86 ^a	84 ^a	5.8	11	17	35 ^a	420 ^a	420 ^a	350 ^a	930 ^a
Vinyl chloride	ppbv	20	2	0.71 U	0.71 U	0.18 U	0.044 U	0.75 U	0.36 U	0.57 U	2.0 U	2.0 U	2.8 U

Notes:

J Estimated concentration

NJ Tentatively identified compound, estimated concentration

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-8-D		SS-8-D		SS-8-D		SS-8-D		SS-8-D		SS-8-D		SS-8-D		SS-8-D		SS-8-F		SS-8-F	
Sample ID:				SS-38443-091213-GL-015		SS-38443-091213-GL-016		SS-38443-010914-GL-004		SS-38443-010914-GL-005		SS-38443-031014-JT-004		SS-38443-071515-6L-024		SS-38443-071515-6L-025		SS-38443-041316-GL-005		SS-38443-011112-JC-067		SS-38443-011112-JC-068	
Sample Date:				9/12/2013		9/12/2013		1/9/2014		1/9/2014		3/10/2014		7/15/2015		7/15/2015		4/13/2016		1/11/2012		1/11/2012	
Parameters				ODH Non-Residential Screening Levels		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate	
				Units																			
				a	b																		
Volatile Organic Compounds																							
1,1-Dichloroethane	ppbv	160	16	0.26 U	0.26 U	0.052 U	0.065 U	0.029 J	0.052 U	0.033 U	1.7 U	0.035 U	0.052 U										
Benzene	ppbv	20	2	0.56 U	0.56 U	0.65	0.69	3.8	0.35 J	0.27	3.8 U	0.17 J	0.18 J										
Chloroform (Trichloromethane)	ppbv	800	80	2.6	3.5	0.53	0.59	0.068 J	0.53	0.53	2.6 U	0.19 J	0.20 J										
cis-1,2-Dichloroethene	ppbv	370	37	4.6	6.1	1.2	1.4	0.21	1.8	1.8	4.0 U	0.014 U	0.021 U										
Ethylbenzene	ppbv	2500	250	0.68 U	0.68 U	2.4	3.5	15	0.56	0.44	4.6 U	0.20	0.18 J										
m&p-Xylenes	ppbv	2000	200	1.9 J	2.2	8.0	12	57	3.0	2.3	8.1 U	0.44 J	0.31 J										
Naphthalene	ppbv	29	2.9	0.90 U	0.90 U	0.18 UJ	0.23 UJ	0.60	0.18 U	0.11 U	6.0 U	0.086 UJ	0.13 J										
o-Xylene	ppbv	2000	200	0.84 J	1.0 J	4.3	6.4	27	1.6	1.3	4.1 U	0.18 J	0.13 J										
Tetrachloroethene	ppbv	250	25	11	15	3.6	4.5	0.57	5.6	5.1	5.3 J	0.59	0.62										
Trichloroethene	ppbv	20	2	200 ^a	290 ^a	36 ^a	43 ^a	0.48	34 ^a	32 ^a	24 ^a	5.3	5.6										
Vinyl chloride	ppbv	20	2	0.71 U	0.71 U	0.14 U	0.18 U	0.071 U	0.14 U	0.089 U	4.8 U	0.029 U	0.043 U										

Notes:

J Estimated concentration

NJ Tentatively identified compound, estimated concentration

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 1
Summary of Building 8 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-8-F	SS-8-F	SS-8-F
Sample ID:				SS-38443-031412-JC-191	SS-38443-080712-GL-066	SS-38443-071515-6L-020
Sample Date:				3/14/2012	8/7/2012	7/15/2015
Parameters	Units	ODH Non-Residential Screening Levels				
		Sub-Slab Soil Gas	Indoor Air			
		a	b			
Volatile Organic Compounds						
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.026 U
Benzene	ppbv	20	2	0.26	0.23	0.099 J
Chloroform (Trichloromethane)	ppbv	800	80	0.22	0.14 J	0.18 J
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	2500	250	0.43	0.79	0.18 J
m&p-Xylenes	ppbv	2000	200	1.2	2.9	0.64
Naphthalene	ppbv	29	2.9	0.090 U	0.090 U	0.090 U
o-Xylene	ppbv	2000	200	0.37	0.83	0.23
Tetrachloroethene	ppbv	250	25	0.81	0.50	0.95
Trichloroethene	ppbv	20	2	5.3	3.0	2.4
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U
Notes:						
J	Estimated concentration					
NJ	Tentatively identified compound, estimated concentration					
U	Not detected at the associated reporting limit					
UJ	Not detected; associated reporting limit is estimated					
1.0	Value greater than ODH Non-Residential Screening Level					

Table 2
Summary of Building 9 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				IA-9-A		IA-9-A		IA-9-A		IA-9-A		IA-9-A		IA-9-A		IA-9-A		IA-9-A	
Sample ID:				IA-38443-032712-JC-193		IA-38443-102413-GL-002		IA-38443-031014-JT-001		IA-38443-021715-GL-006		SDD-IA-9A-0215		IA-38443-071515-6L-029		IA-38443-071515-6L-030		IA-38443-041316-GL-012	
Sample Date:				3/27/2012		10/24/2013		3/10/2014		2/17/2015		2/17/2015		7/15/2015		7/15/2015		4/13/2016	
Parameters				Units		ODH Non-Residential Screening Levels										Duplicate			
						Sub-Slab Soil Gas		Indoor Air											
						a		b											
Volatile Organic Compounds																			
1,1-Dichloroethane		ppbv	160	16	7.9 U	2.5 U		3.6 U	3.9 U	0.29 U	0.13 U	0.052 U		4.7 U	0.25 U	0.26 U			
Benzene		ppbv	20	2	17 U	5.3 U		17 J ^b	8.5 U	4 ^b	0.28 U	0.26 J		10 U	0.54 U	0.56 U			
Chloroform (Trichloromethane)		ppbv	800	80	12 U	3.6 U		5.3 U	5.8 U	0.14 U	0.19 U	0.076 U		6.9 U	0.37 U	0.38 U			
cis-1,2-Dichloroethene		ppbv	370	37	18 U	5.7 U		8.4 U	9.1 U	0.72 U	0.30 U	0.12 U		11 U	0.58 U	0.60 U			
Ethylbenzene		ppbv	2500	250	270 ^b	42		100	44	36.7	0.68 J	1.3 J		66	3.9	17			
m&p-Xylenes		ppbv	2000	200	1200 ^b	180		470 ^b	170	103	2.9 J	5.9 J		280 ^b	15	64			
Naphthalene		ppbv	29	2.9	27 U	8.5 U		13 U	14 U	0.71 U	0.45 U	0.18 UJ		16 U	0.87 U	0.90 U			
o-Xylene		ppbv	2000	200	390 ^b	66		130	49	40.1	0.95 J	1.8 J		82	4.2	16			
Tetrachloroethene		ppbv	250	25	12 U	3.8 U		5.6 U	6.1 U	0.14 U	0.20 U	0.080 U		7.3 U	0.39 U	0.40 U			
Trichloroethene		ppbv	20	2	13 J ^b	3.4 U		5.0 U	5.4 U	0.14 U	0.18 U	0.072 U		6.6 U	0.35 U	0.36 U			
Vinyl chloride		ppbv	20	2	22 U	6.7 U		9.9 U	11 U	0.14 U	0.36 U	0.14 U		13 U	0.69 U	0.71 U			

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 2
Summary of Building 9 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			IA-9-B		IA-9-B		IA-9-B		IA-9-B		IA-9-B		IA-9-B		IA-9-B		IA-9-B		IA-9-E		IA-9-E		
Sample ID:			IA-38443-031412-JC-195		IA-38443-102413-GL-001		IA-38443-031014-JT-002		IA-38443-052014-GL-002		IA-38443-021715-GL-007		IA-38443-041316-GL-013		IA-38443-071017-GL-012		IA-38443-071218-JC-011		IA-38443-052014-GL-004		IA-38443-052014-GL-005		
Sample Date:			3/14/2012		10/24/2013		3/10/2014		5/20/2014		2/17/2015		4/13/2016		7/10/2017		7/12/2018		5/20/2014		5/20/2014		
Parameters	Units	ODH Non-Residential Screening Levels																				Duplicate	
		Sub-Slab Soil Gas	Indoor Air																				
		a	b																				
Volatile Organic Compounds																							
1,1-Dichloroethane	ppbv	160	16		22 U		6.3 U		0.47 U		0.026 U		0.52 U		2.0 U		0.039 U		1.4 U		0.026 U		0.026 U
Benzene	ppbv	20	2		48 U		14 U		8.1 ^b		0.15 J		4.2 ^b		4.3 U		0.13 J		3.0 U		0.17 J		0.19 J
Chloroform (Trichloromethane)	ppbv	800	80		32 U		9.2 U		0.69 U		0.038 U		0.76 U		2.9 U		0.057 U		2.1 U		0.038 U		0.038 U
cis-1,2-Dichloroethene	ppbv	370	37		51 U		15 U		1.1 U		0.060 U		1.2 U		4.6 U		0.089 U		3.2 U		0.060 U		0.060 U
Ethylbenzene	ppbv	2500	250		94 J		39 J		73		0.41		39		56		0.53		14		3.1		3.9
m&p-Xylenes	ppbv	2000	200		420 ^b		160		310 ^b		1.8		150		250 ^b		2.1		58		13		17
Naphthalene	ppbv	29	2.9		76 U		22 U		1.6 U		0.090 U		1.8 U		6.9 U		0.13 U		4.9 U		0.090 U		0.090 U
o-Xylene	ppbv	2000	200		150 J		60		85		0.70		44		77		0.64		15		5.0		6.3
Tetrachloroethene	ppbv	250	25		34 U		9.7 U		0.73 U		0.040 U		0.80 U		3.1 U		0.063 J		2.2 U		0.040 U		0.040 U
Trichloroethene	ppbv	20	2		31 U		8.7 U		0.65 U		0.036 U		0.72 U		2.8 U		0.054 U		1.9 U		0.036 U		0.036 U
Vinyl chloride	ppbv	20	2		60 U		17 U		1.3 U		0.071 U		1.4 U		5.5 U		0.11 U		3.8 U		0.071 U		0.071 U

Notes:

- D Compounds at secondary dilution factor.
- J Estimated concentration
- U Not detected at the associated reporting limit
- UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 2
Summary of Building 9 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				OA-9		OA-9		OA-9		OA-9		OA-9		OA-9		OA-9	
Sample ID:				OA-38443-031412-JC-192		OA-38443-102413-GL-003		OA-38443-031014-JT-003		OA-38443-052014-GL-006		OA-38443-021715-GL-008		OA-38443-071515-6L-027		OA-38443-041316-GL-014	
Sample Date:				3/14/2012		10/24/2013		3/10/2014		5/20/2014		2/17/2015		7/15/2015		4/13/2016	
												</					

- Notes:
- D Compounds at secondary dilution factor.
 - J Estimated concentration
 - U Not detected at the associated reporting limit
 - UJ Not detected; associated reporting limit is estimated
 - 1.0

 Value greater than ODH Non-Residential Screening Level

Table 2
Summary of Building 9 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				OA-9-Tree	SS-9-A	SS-9-A	SS-9-A	SS-9-A	SS-9-A	SS-9-A	SS-9-A	SS-9-A	SS-9-A
Sample ID:				OA-38443-032712-JC-222	SS-38443-011112-JC-061	SS-38443-011112-JC-062	SS-38443-032712-JC-194	SDD-SS-9A-0215	SS-38443-021715-GL-005	SDD-SS-9A-0715	SS-38443-071515-6L-028	SS-38443-041316-GL-010	SS-38443-041316-GL-011
Sample Date:				3/27/2012	1/11/2012	1/11/2012	3/27/2012	2/17/2015	2/17/2015	7/15/2015	7/15/2015	4/13/2016	4/13/2016
Parameters	Units	ODH Non-Residential Screening Levels				Duplicate							Duplicate
		Sub-Slab Soil Gas	Indoor Air										
		a	b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	0.026 U	3.5 U	3.5 U	4.3 U	0.29 U	1.7 U	8.9 U	2.5 U	0.90 U	0.80 U
Benzene	ppbv	20	2	0.15 J	1.8 U	1.8 U	9.2 U	2	3.6 U	11 U	5.5 U	1.9 U	1.7 U
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	4.6 J	4.3 J	8.6 J	0.69	2.5 U	7.4 U	3.7 U	1.3 U	1.2 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	1.4 U	1.4 U	9.9 U	0.72 U	3.9 U	9.1 U	5.8 U	2.1 U	1.9 U
Ethylbenzene	ppbv	2500	250	0.068 U	2.2 U	2.2 U	11 U	4.8	4.4 U	8.3 U	6.6 U	2.4 U	4.1 J
m&p-Xylenes	ppbv	2000	200	0.12 U	4.8 U	4.8 U	20 U	6.1	7.8 U	17 U	12 U	7.8 J	18 J
Naphthalene	ppbv	29	2.9	0.090 U	8.6 UJ	8.6 UJ	15 U	0.71 U	5.9 U	6.9 U	8.8 UJ	3.1 U	2.8 U
o-Xylene	ppbv	2000	200	0.061 U	2.2 U	2.2 U	10 U	0.93	4.0 U	8.3 U	5.9 U	2.5 J	5.7 J
Tetrachloroethene	ppbv	250	25	0.040 U	48	54	80	30.5	23	68	86	8.6	10
Trichloroethene	ppbv	20	2	0.042 J	1800 ^a	1800 ^a	3100 ^a	644 ^a	580 ^a	1500 D ^a	1700 ^a	280 ^a	310 ^a
Vinyl chloride	ppbv	20	2	0.071 U	2.9 U	2.9 U	12 U	0.14 U	4.6 U	14 U	6.9 U	2.5 U	2.2 U

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 2
Summary of Building 9 - B and G Trucking Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-9-A		SS-9-A		SS-9-A		SS-9-A		SS-9-B		SS-9-B		SS-9-B		SS-9-E	
Sample ID:				SS-38443-071017-GL-008		SS-38443-071017-GL-009		SS-38443-071218-JC-008		SS-38443-071218-JC-009		SS-38443-011112-JC-063		SS-38443-031412-JC-196		SS-38443-052014-GL-001		SS-38443-052014-GL-003	
Sample Date:				7/10/2017		7/10/2017		7/12/2018		7/12/2018		1/11/2012		3/14/2012		5/20/2014		5/20/2014	
Parameters				ODH Non-Residential Screening Levels		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate	
				Sub-Slab Soil Gas	Indoor Air														
				a	b														
Volatile Organic Compounds																			
1,1-Dichloroethane	ppbv	160	16	0.52 U	0.46 U	1.4 U	0.62 U	2.6 U	5.4 U	1.9	0.21 U								
Benzene	ppbv	20	2	1.1 U	1.0 U	3.0 U	1.3 U	1.4 U	12 U	0.056 U	0.45 U								
Chloroform (Trichloromethane)	ppbv	800	80	0.76 U	0.68 U	2.0 U	0.90 U	2.3 U	7.9 U	1.6	0.64 J								
cis-1,2-Dichloroethene	ppbv	370	37	1.2 U	1.1 U	3.2 U	1.4 U	1.1 U	12 U	0.060 U	0.48 U								
Ethylbenzene	ppbv	2500	250	1.7 J	2.1 J	3.6 U	1.7 J	22	19 J	2.0	2.1								
m&p-Xylenes	ppbv	2000	200	6.8	7.7	6.4 U	2.9 U	92	76	9.2	8.9								
Naphthalene	ppbv	29	2.9	1.8 U	1.6 U	4.8 U	2.1 U	6.5 UJ	19 U	0.090 U	0.72 U								
o-Xylene	ppbv	2000	200	1.9 J	2.4 J	3.2 U	2.1 J	27	26 J	3.0	3.0								
Tetrachloroethene	ppbv	250	25	16	18	30	32	0.83 U	8.3 U	0.50	8.2								
Trichloroethene	ppbv	20	2	360 ^a	420 ^a	460 ^a	490 ^a	2.3 U	7.5 U	1.3	150 ^a								
Vinyl chloride	ppbv	20	2	1.4 U	1.3 U	3.8 U	1.7 U	2.2 U	15 U	0.071 U	0.57 U								

Notes:

D Compounds at secondary dilution factor.

J Estimated concentration

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A-2012	IA-12-OP-A-2013	IA-12-OP-A-2013
Sample ID:				IA-38443-102413-GL-005	IA-38443-011714-GL-021	IA-38443-040314-JT-010	IA-38443-021815-GL-016	SDD-IA-12OPA-0215	IA-38443-071315-6L-011	IA-38443-071317-GL-036	IA-38443-071318-JC-025	IA-38443-031512-JC-215	IA-38443-061516-GL-012	IA-38443-071317-GL-037
Sample Date:				10/24/2013	1/17/2014	4/3/2014	2/18/2015	2/18/2015	7/13/2015	7/13/2017	7/13/2018	3/15/2012	6/15/2016	7/13/2017
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas		Indoor Air										
		a	b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.10 U	0.026 U	0.052 U	R	0.24 U	0.26 U	0.26 U	0.026 U	0.026 U	0.50 U	0.26 U
Benzene	ppbv	20	2	8.8 ^b	3.5 ^b	7.4 ^b	R	5 ^b	4.4 ^b	17 ^b	0.056 U	9.7 ^b	33 ^b	9.5 ^b
Chloroform (Trichloromethane)	ppbv	800	80	0.15 U	0.038 U	0.076 U	R	0.12 U	0.38 U	0.39 U	0.038 U	0.23	0.73 U	0.38 U
cis-1,2-Dichloroethene	ppbv	370	37	0.35 J	0.060 U	0.12 U	R	0.62 U	0.60 U	0.61 U	3.9	0.35	1.2 U	0.60 U
Ethylbenzene	ppbv	2500	250	9.9	4.8	12	R	8.8	10	39	0.068 U	8.4	31	20
m&p-Xylenes	ppbv	2000	200	37	19	46	R	34.4	44	170	0.12 U	34	120	88
Naphthalene	ppbv	29	2.9	0.36 U	0.47 J	0.81 J	R	3.3 ^b	1.1 J	4.5 J ^b	0.090 U	0.37 J	1.9 J	1.8 J
o-Xylene	ppbv	2000	200	12	6.2	17	R	10.1	15	60	0.061 U	12	42	31
Tetrachloroethene	ppbv	250	25	0.16 U	0.18 U	0.080 U	R	0.13 U	0.40 U	0.41 U	4.6	0.24	0.77 U	0.40 U
Trichloroethene	ppbv	20	2	6.0 ^b	0.54	0.33 J	R	0.24	0.36 U	0.36 U	0.43	5.0 ^b	0.69 U	0.36 U
Vinyl chloride	ppbv	20	2	0.28 U	0.071 U	0.14 U	R	0.13 U	0.71 U	0.72 U	0.071 U	0.071 U	1.4 U	0.71 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UU	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3

**Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018**

Sample Location:			IA-12-OP-A-2013	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-SJ-A	IA-12-SJ-A	
Sample ID:			IA-38443-071318-JC-023	IA-38443-031512-JC-217	IA-38443-102413-GL-007	IA-38443-011714-GL-020	IA-38443-040314-JT-011	IA-38443-071315-6L-010	IA-38443-061516-GL-010	IA-38443-071317-GL-033	IA-38443-071318-JC-022	IA-38443-030712-JC-111	IA-38443-102413-GL-012	
Sample Date:			7/13/2018	3/15/2012	10/24/2013	1/17/2014	4/3/2014	7/13/2015	6/15/2016	7/13/2017	7/13/2018	3/7/2012	10/24/2013	
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas a	Indoor Air b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.10 U	0.10 U	0.026 U	0.26 U	0.14 U	0.87 U	0.26 U	0.47 U	0.026 U	0.13 U
Benzene	ppbv	20	2	5.4 ^b	14 ^b	11 ^b	5.0 ^b	25 ^b	4.2 ^b	39 ^b	11 ^b	7.4 ^b	0.22	0.34 J
Chloroform (Trichloromethane)	ppbv	800	80	0.15 J	0.37 J	0.15 U	0.038 U	0.38 U	0.21 J	1.3 U	0.38 U	0.69 U	0.066 J	0.19 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.37 J	0.36 J	0.060 U	0.60 U	0.31 U	2.0 U	0.60 U	1.1 U	0.077 J	0.30 U
Ethylbenzene	ppbv	2500	250	13	10	13	7.4	29	8.9	63	15	13	0.17 J	1.1
m&p-Xylenes	ppbv	2000	200	56	37	50	29	110	37	250 ^b	61	55	0.58	3.6
Naphthalene	ppbv	29	2.9	1.1	0.89 J	0.54 J	0.51 J	0.90 U	0.47 U	4.7 J ^b	1.3 J	1.6 U	0.12 J	0.45 U
o-Xylene	ppbv	2000	200	21	12	16	9.4	38	12	89	21	20	0.25	1.2
Tetrachloroethene	ppbv	250	25	0.28	0.51 J	0.16 U	0.12 U	0.40 U	0.21 U	1.3 U	0.40 U	1.2 J	0.62	0.40 J
Trichloroethene	ppbv	20	2	0.30	5.6 ^b	5.8 ^b	0.43	0.36 U	0.19 U	1.2 U	0.36 U	13 ^b	2.7 ^b	0.65 J
Vinyl chloride	ppbv	20	2	0.071 U	0.28 U	0.28 U	0.071 U	0.71 U	0.37 U	2.4 U	0.71 U	1.3 U	0.071 U	0.36 U

Notes:	
J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UU	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			IA-12-SJ-A		IA-12-SJ-A		IA-12-SJ-A		IA-12-SJ-A		IA-12-SJ-B		IA-12-SJ-B		IA-12-SJ-B		IA-12-SJ-B		IA-12-SJ-C		IA-12-SJ-C		IA-12-SJ-C	
Sample ID:			IA-38443-011714-GL-015		IA-38443-040214-JT-004		IA-38443-071317-GL-028		IA-38443-071318-JC-015		IA-38443-102413-GL-015		IA-38443-021815-GL-011		IA-38443-071315-6L-003		IA-38443-061616-GL-016		IA-38443-102413-GL-011		IA-38443-011714-GL-016		IA-38443-040214-JT-005	
Sample Date:			1/17/2014		4/2/2014		7/13/2017		7/13/2018		10/24/2013		2/18/2015		7/13/2015		6/16/2016		10/24/2013		1/17/2014		4/2/2014	
Parameters			ODH Non-Residential Screening Levels																					
			Units	Sub-Slab Soil Gas	Indoor Air																			
			a	b																				
Volatile Organic Compounds																								
1,1-Dichloroethane			ppbv	160	16	0.026 U	0.026 U	0.52 U	0.026 U	0.13 U	0.47 U	0.026 U	3.8 U	0.13 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene			ppbv	20	2	0.20	0.28	1.1 U	0.36	0.31 J	1.0 U	0.24	8.1 U	0.34 J	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.30
Chloroform (Trichloromethane)			ppbv	800	80	0.038 U	0.038 U	0.76 U	0.065 J	0.19 U	0.69 U	0.085 J	5.5 U	0.19 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene			ppbv	370	37	0.060 U	0.060 U	1.2 U	0.060 U	0.30 U	1.1 U	0.060 U	8.7 U	0.30 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene			ppbv	2500	250	0.77	6.1	6.6	1.1	1.1	15	2.7	9.9 U	1.5	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	5.2
m&p-Xylenes			ppbv	2000	200	2.6	14	23	3.7	3.3	41 J	7.9	17 U	4.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	12
Naphthalene			ppbv	29	2.9	0.090 UJ	0.097 J	1.8 U	0.090 U	0.45 U	1.6 U	0.70	13 U	0.45 U	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.097 J
o-Xylene			ppbv	2000	200	0.80	2.7	5.5	1.3	1.1	9.4	3.3	8.8 U	1.2	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	2.0
Tetrachloroethene			ppbv	250	25	0.33	0.41	0.80 U	6.4	0.43 J	0.73 U	0.58	5.8 U	0.60 J	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.39
Trichloroethene			ppbv	20	2	0.22	0.14 J	0.72 U	0.21	0.55 J	1.4 J	0.20	5.2 U	0.69 J	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.15 J
Vinyl chloride			ppbv	20	2	0.071 U	0.071 U	1.4 U	0.071 U	0.36 U	1.3 U	0.071 U	10 U	0.36 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			IA-12-SJ-C		IA-12-SJ-C		IA-12-SJ-C		IA-12-SJ-C-2012		IA-12-SJ-C-2013		IA-12-SJ-C-2013		IA-12-SJ-D		IA-12-SJ-D		IA-12-SJ-D		IA-12-SJ-D		IA-12-SJ-D	
Sample ID:			IA-38443-061616-GL-018		IA-38443-071317-GL-030		IA-38443-071318-JC-017		IA-38443-030712-JC-114		IA-38443-071317-GL-029		IA-38443-071318-JC-018		IA-38443-030712-JC-116		IA-38443-102413-GL-014		IA-38443-011714-GL-012		IA-38443-040214-JT-006		IA-38443-021815-GL-012	
Sample Date:			6/16/2016		7/13/2017		7/13/2018		3/7/2012		7/13/2017		7/13/2018		3/7/2012		10/24/2013		1/17/2014		4/2/2014		2/18/2015	
Parameters			ODH Non-Residential Screening Levels																					
			Units	Sub-Slab Soil Gas	Indoor Air																			
			a	b																				
Volatile Organic Compounds																								
1,1-Dichloroethane			ppbv	160	16	1.6 U	0.52 U	0.026 U	0.026 U	0.47 U	0.026 U	0.026 U	0.13 U	0.026 U	0.026 U	0.25	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene			ppbv	20	2	3.5 U	1.1 U	0.36	0.18 J	1.0 U	0.38	0.21	0.32 J	0.25	0.25	0.28	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.28
Chloroform (Trichloromethane)			ppbv	800	80	2.4 U	0.76 U	0.082 J	0.049 J	0.69 U	0.065 J	0.074 J	0.19 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene			ppbv	370	37	3.8 U	1.2 U	0.060 U	0.060 U	1.1 U	0.060 U	0.093 J	0.30 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene			ppbv	2500	250	4.3 U	15	1.1	0.094 J	8.0	1.1	0.17 J	1.1	0.70	4.7	9.3	1.1	0.70	4.7	9.3	1.1	0.70	4.7	9.3
m&p-Xylenes			ppbv	2000	200	9.7 J	54	4.0	0.29	27	3.8	0.51	3.3	2.3	11	24 J	3.3	2.3	11	24 J	3.3	2.3	11	24 J
Naphthalene			ppbv	29	2.9	5.6 U	1.8 U	0.45 J	0.090 UJ	1.6 U	0.23 J	0.090 UJ	0.45 U	0.090 UJ	0.13 J	0.090 U	0.090 UJ	0.13 J	0.090 UJ	0.13 J	0.090 UJ	0.13 J	0.090 UJ	0.090 U
o-Xylene			ppbv	2000	200	3.8 U	13	1.5	0.12 J	6.4	1.4	0.23	1.0	0.64	1.8	5.4	1.0	0.64	1.8	5.4	1.0	0.64	1.8	5.4
Tetrachloroethene			ppbv	250	25	2.5 U	0.80 U	4.9	0.41	0.73 U	6.6	0.67	0.37 J	0.36	0.35	0.24	0.37 J	0.36	0.35	0.35	0.35	0.35	0.35	0.24
Trichloroethene			ppbv	20	2	2.3 U	0.72 U	0.20	1.6	0.65 U	0.18 J	3.1 ^b	0.63 J	0.27	0.14 J	0.18 J	0.63 J	0.27	0.14 J	0.18 J	0.14 J	0.14 J	0.14 J	0.18 J
Vinyl chloride			ppbv	20	2	4.4 U	1.4 U	0.071 U	0.071 U	1.3 U	0.071 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			IA-12-SJ-D	IA-12-SJ-D	IA-12-SJ-D	IA-12-SJ-D	OA-12	OA-12	OA-12-OP	OA-12-OP	OA-12-OP-2015	OA-12-OP-2015	OA-12-OP-2015	
Sample ID:			IA-38443-071315-6L-006	IA-38443-061616-GL-020	IA-38443-071317-GL-031	IA-38443-071318-JC-016	OA-38443-102413-GL-013	OA-38443-011714-GL-018	OA-38443-031512-JC-214	OA-38443-040314-JT-012	OA-38443-021815-GL-017	OA-38443-071315-6L-007	OA-38443-061516-GL-013	
Sample Date:			7/13/2015	6/16/2016	7/13/2017	7/13/2018	10/24/2013	1/17/2014	3/15/2012	4/3/2014	2/18/2015	7/13/2015	6/15/2016	
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas a	Indoor Air b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.026 U	4.1 U	0.43 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 UJ	0.026 U	0.026 U	
Benzene	ppbv	20	2	0.22	8.9 U	1.1 J	0.36	0.12 J	0.23	0.22	0.33	0.15 J	0.12 J	
Chloroform (Trichloromethane)	ppbv	800	80	0.065 J	6.0 U	0.63 U	0.072 J	0.038 U	0.038 U	0.074 J	0.038 U	0.038 UJ	0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	9.5 U	1.0 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 UJ	0.060 U	0.060 U	
Ethylbenzene	ppbv	2500	250	2.9	11 U	18	1.0	0.20	0.068 U	0.068 U	0.13 J	0.068 UJ	0.084 J	
m&p-Xylenes	ppbv	2000	200	8.1	19 U	60	3.8	0.74	0.12 U	0.12 U	0.44	0.12 UJ	0.32	
Naphthalene	ppbv	29	2.9	0.39 J	14 UJ	1.5 U	0.48 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 UJ	0.090 UJ	
o-Xylene	ppbv	2000	200	3.0	9.7 U	14	1.3	0.23	0.061 U	0.061 U	0.17 J	0.061 UJ	0.12 J	
Tetrachloroethene	ppbv	250	25	0.45	6.3 U	0.74 J	5.9	0.040 U	0.040 U	0.057 J	0.040 U	0.040 UJ	0.040 U	
Trichloroethene	ppbv	20	2	0.64	5.7 U	0.60 U	0.19 J	0.041 J	0.054 U	0.10 J	0.036 U	0.036 UJ	0.036 U	
Vinyl chloride	ppbv	20	2	0.071 U	11 U	1.2 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				OA-12-OP-2015	OA-12-OP-2015	OA-12-SJ	OA-12-SJ	OA-12-SJ	OA-12-SJ	OA-12-SJ	OA-14-2012	OA-14-2012	OA-14-2012	
Sample ID:				OA-38443-071317-GL-038	OA-38443-071318-JC-019	OA-38443-030712-JC-110	OA-38443-040214-JT-007	OA-38443-021815-GL-013	OA-38443-071315-6L-001	OA-38443-061616-GL-021	OA-38443-010612-JC-016	OA-38443-032712-JC-223	OA-38443-080212-GL-037	
Sample Date:				7/13/2017	7/13/2018	3/7/2012	4/2/2014	2/18/2015	7/13/2015	6/16/2016	1/6/2012	3/27/2012	8/2/2012	
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas a	Indoor Air b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 UJ	0.026 U	0.026 U	0.035 U	0.026 U	0.026 U	
Benzene	ppbv	20	2	0.14 J	0.25	0.056 U	0.33	0.29 J	0.14 J	0.78	0.24	0.15 J	0.22	
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.038 U	0.038 U	0.11 J	0.038 UJ	0.038 U	0.038 U	0.049 J	0.038 U	0.038 U	
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 UJ	0.060 U	0.060 U	0.014 U	0.060 U	0.060 U	
Ethylbenzene	ppbv	2500	250	0.11 J	0.15 J	0.068 U	0.17 J	0.098 J	0.068 U	1.2	0.058 J	0.068 U	0.075 J	
m&p-Xylenes	ppbv	2000	200	0.45	0.54	0.12 U	0.54	0.27 J	0.18 J	5.0	0.15 J	0.12 U	0.19 J	
Naphthalene	ppbv	29	2.9	0.090 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.096 J	0.086 U	0.090 U	0.090 UJ	
o-Xylene	ppbv	2000	200	0.16 J	0.21	0.061 U	0.21	0.080 J	0.067 J	2.1	0.051 J	0.061 U	0.062 J	
Tetrachloroethene	ppbv	250	25	0.062 J	0.059 J	0.040 U	0.040 U	0.040 UJ	0.058 J	0.040 U	0.023 J	0.040 U	0.040 U	
Trichloroethene	ppbv	20	2	0.036 U	0.036 U	0.036 U	0.036 U	0.036 UJ	0.44	0.036 U	0.030 U	0.036 U	0.036 U	
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	0.071 U	0.029 U	0.071 U	0.071 U	

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
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U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				OA-14-2012	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A
Sample ID:				OA-38443-011614-GL-007	SS-38443-010612-JC-022	SS-38443-031512-JC-216	SS-38443-102413-GL-004	SS-38443-011714-GL-022	SS-38443-040314-JT-008	SS-38443-021815-GL-015A	SS-38443-071315-6L-012	SS-38443-061516-GL-011	SS-38443-071317-GL-034
Sample Date:				1/16/2014	1/6/2012	3/15/2012	10/24/2013	1/17/2014	4/3/2014	2/18/2015	7/13/2015	6/15/2016	7/13/2017
Parameters	Units	ODH Non-Residential Screening Levels											
		Sub-Slab Soil Gas	Indoor Air										
		a	b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	0.026 U	5.3 U	5.8 J	6.6 U	0.61 U	2.1 U	0.52 U	0.35 U	2.5 U	2.6 U
Benzene	ppbv	20	2	0.17 J	2.7 U	3.9 U	14 U	1.3 U	4.6 U	1.1 U	0.76 U	5.3 U	5.5 U
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	51	66	100	11	17	6.1	8.8	19	22
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	570 ^a	920 ^a	990 ^a	140	260	94	110	310	300
Ethylbenzene	ppbv	2500	250	0.068 U	3.3 U	4.7 U	17 U	1.6 U	5.6 U	1.4 U	0.93 U	6.5 U	6.7 U
m&p-Xylenes	ppbv	2000	200	0.17 J	7.2 U	8.3 U	30 U	2.8 U	9.8 U	3.4 J	3.2	11 U	12 U
Naphthalene	ppbv	29	2.9	0.090 U	13 U	6.2 U	23 U	2.1 U	7.4 U	1.8 U	1.2 U	8.6 UJ	8.9 U
o-Xylene	ppbv	2000	200	0.061 U	3.3 U	4.2 U	15 U	1.4 U	5.0 U	1.2 U	1.2 J	5.8 U	6.0 U
Tetrachloroethene	ppbv	250	25	0.049 U	3.8 J	3.9 J	10 U	1.1 J	3.3 U	14	1.7 J	3.8 U	4.0 U
Trichloroethene	ppbv	20	2	0.12 U	2400 ^a	2600 ^a	4800 ^a	710 ^a	950 ^a	270 ^a	460 ^a	980 ^a	1000 ^a
Vinyl chloride	ppbv	20	2	0.071 U	4.4 U	4.9 U	18 U	1.7 U	5.8 U	1.4 U	0.97 U	6.8 U	7.0 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:														
Sample ID:														
Sample Date:														
Parameters	Units	ODH Non-Residential Screening Levels		SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-C	SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-A
		Sub-Slab Soil Gas a	Indoor Air b	SS-38443-071315-6L-009	SS-38443-061516-GL-008	SS-38443-061516-GL-009	SS-38443-071317-GL-032	SS-38443-071318-JC-020	SS-38443-071318-JC-021	SS-12-OP-C	SS-38443-010612-JC-024	SS-38443-010612-JC-023	SS-38443-030712-JC-112	SS-38443-030712-JC-118
				7/13/2015	6/15/2016	6/15/2016	7/13/2017	7/13/2018	7/13/2018	10/24/2013	1/6/2012	1/6/2012	3/7/2012	3/7/2012
				Duplicate		Duplicate						Duplicate		Duplicate
				Volatile Organic Compounds										
1,1-Dichloroethane	ppbv	160	16	2.5 U	4.8 U	7.9 U	4.5 U	2.0 U	0.47 U	-	3.5 U	R	1.8 U	1.8 U
Benzene	ppbv	20	2	5.3 U	10 U	17 U	9.6 U	4.4 U	1.0 U	-	1.8 U	R	3.9 U	4.0 U
Chloroform (Trichloromethane)	ppbv	800	80	11 J	31 J	37 J	17 J	24	19	-	8.8 J	R	9.5 J	9.7 J
cis-1,2-Dichloroethene	ppbv	370	37	64	250	270	94	120	95	-	26	R	23	24
Ethylbenzene	ppbv	2500	250	6.4 U	13 U	21 U	12 U	5.3 U	1.2 U	-	2.2 U	R	4.8 U	4.8 U
m&p-Xylenes	ppbv	2000	200	11 U	22 U	36 U	21 U	9.4 U	2.2 U	-	4.8 U	R	8.4 U	8.5 U
Naphthalene	ppbv	29	2.9	8.5 U	17 UJ	27 UJ	15 U	7.1 U	1.6 U	-	8.6 U	R	6.3 U	6.4 U
o-Xylene	ppbv	2000	200	5.8 U	11 U	18 U	10 U	4.8 U	1.1 U	-	2.2 U	R	4.3 U	4.3 U
Tetrachloroethene	ppbv	250	25	17 J	83	100	50	79	72	-	5.8 J	R	6.9 J	7.0 J
Trichloroethene	ppbv	20	2	800 ^a	3300 ^a	4000 ^a	1500 ^a	2400 ^a	2200 ^a	1800 ^a	1300 ^a	R	1400 ^a	1400 ^a
Vinyl chloride	ppbv	20	2	6.7 U	13 U	21 U	12 U	5.6 U	1.3 U	-	2.9 U	R	5.0 U	5.0 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B		SS-12-SJ-B						
Sample ID:				SS-38443-010612-JC-025		SS-38443-030712-JC-113		SS-38443-102413-GL-008		SS-38443-102413-GL-009		SS-38443-011714-GL-013		SS-38443-011714-GL-014		SS-38443-040214-JT-001		SS-38443-040214-JT-002		SDD-SS-12SJB-0215		SS-38443-021815-GL-010		SDD-SS-12SJB-0715				
Sample Date:				1/6/2012		3/7/2012		10/24/2013		10/24/2013		1/17/2014		1/17/2014		4/2/2014		4/2/2014		2/18/2015		2/18/2015		7/13/2015				
Parameters				ODH Non-Residential Screening Levels																								
				Units	Sub-Slab Soil Gas	Indoor Air																						
				a	b																							
Volatile Organic Compounds																												
1,1-Dichloroethane				ppbv	160	16	9.0 U		5.8 U		8.7 U		8.2 U		6.2 U		1.1 U		3.0 U		14 U		0.27 U		0.026 U		44 U	
Benzene				ppbv	20	2	4.6 U		12 U		19 U		18 U		13 U		2.4 U		6.5 U		29 U		0.52		0.43		56 U	
Chloroform (Trichloromethane)				ppbv	800	80	25 J		32 J		37 J		38 J		38 J		19 J		10 J		36 J		19		14		36 U	
cis-1,2-Dichloroethene				ppbv	370	37	570 ^a		530 ^a		470 ^a		480 ^a		390 J ^a		210 J		120 J		410 J ^a		152		110		210	
Ethylbenzene				ppbv	2500	250	5.6 U		15 U		23 U		21 U		16 U		2.9 U		7.8 U		36 U		4.1		4.0		41 U	
m&p-Xylenes				ppbv	2000	200	12 U		27 U		40 U		38 U		29 U		5.1 U		14 U		63 U		11.7		11 J		82 U	
Naphthalene				ppbv	29	2.9	22 UJ		20 UJ		30 U		28 U		22 U		3.8 U		10 U		47 U		0.69 U		0.090 U		34 U	
o-Xylene				ppbv	2000	200	5.6 U		14 U		21 U		19 U		15 U		2.6 U		7.0 U		32 U		2.7		2.5		41 U	
Tetrachloroethene				ppbv	250	25	9.2 J		10 J		13 U		14 J		14 J		7.3 J		4.6 U		21 U		9.8		8.1		26 U	
Trichloroethene				ppbv	20	2	5600 ^a		5600 ^a		6700 ^a		7000 ^a		6400 ^a		5300 ^a		1600 J ^a		6100 J ^a		3300 ^a		2000 ^a		5700 ^a	
Vinyl chloride				ppbv	20	2	7.4 U		16 U		24 U		22 U		17 U		3.0 U		8.2 U		37 U		0.14 U		0.071 U		70 U	

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C	
Sample ID:				SS-38443-071315-6L-002	SS-38443-061616-GL-014	SS-38443-061616-GL-015	SS-38443-071317-GL-026	SS-38443-071317-GL-027	SS-38443-071318-JC-013	SS-38443-071318-JC-014	SS-38443-010612-JC-026	SS-38443-030712-JC-115	SS-38443-102413-GL-010	
Sample Date:				7/13/2015	6/16/2016	6/16/2016 Duplicate	7/13/2017	7/13/2017 Duplicate	7/13/2018	7/13/2018 Duplicate	1/6/2012	3/7/2012	10/24/2013	
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas a	Indoor Air b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	17 U	4.7 U	1.8 U	2.4 U	2.7 U	0.026 U	0.026 U	0.35 U	0.26 U	0.052 U	
Benzene	ppbv	20	2	38 U	10 U	3.8 U	5.1 U	5.9 U	0.62	0.60	0.18 U	0.56 U	0.12 J	
Chloroform (Trichloromethane)	ppbv	800	80	46 J	6.8 U	4.5 J	4.9 U	5.8 U	3.4	3.4	0.79 J	0.70 J	0.16 J	
cis-1,2-Dichloroethene	ppbv	370	37	330	22 J	21	16 J	19 J	20	20	0.65 J	0.60 U	0.18 J	
Ethylbenzene	ppbv	2500	250	46 U	12 U	4.6 U	6.2 U	7.1 U	0.068 U	0.068 U	0.22 U	0.68 U	0.14 U	
m&p-Xylenes	ppbv	2000	200	81 U	22 U	8.2 U	11 U	13 U	0.21	0.16 J	0.48 U	1.2 U	0.43	
Naphthalene	ppbv	29	2.9	60 U	16 U	6.1 UJ	8.2 U	9.4 U	0.090 U	0.090 U	0.86 U	0.90 UJ	0.18 U	
o-Xylene	ppbv	2000	200	41 U	11 U	4.2 U	5.6 U	6.4 U	0.11 J	0.065 J	0.22 U	0.61 U	0.14 J	
Tetrachloroethene	ppbv	250	25	27 U	43	40	43	49	52	39	28	23	4.5	
Trichloroethene	ppbv	20	2	7700 ^a	1500 ^a	1700 ^a	1400 ^a	1700 ^a	1500 ^a	1200 ^a	230 ^a	180 ^a	31 ^a	
Vinyl chloride	ppbv	20	2	48 U	13 U	4.8 U	6.5 U	7.4 U	0.071 U	0.071 U	0.29 U	0.71 U	0.14 U	

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 3
Summary of Building 12 - S and J Precision and Overstreet Painting
Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D
Sample ID:			SS-38443-011714-GL-017	SS-38443-040214-JT-003	SS-38443-061616-GL-017	SS-38443-010612-JC-027	SS-38443-030712-JC-117	SS-12-SJ-D	SS-38443-071215-6L-004	SS-38443-071215-6L-005
Sample Date:			1/17/2014	4/2/2014	6/16/2016	1/6/2012	3/7/2012	10/24/2013	7/12/2015	7/12/2015
Parameters	Units	ODH Non-Residential Screening Levels								
		Sub-Slab Soil Gas	Indoor Air							
		a	b							
Volatile Organic Compounds										
1,1-Dichloroethane	ppbv	160	16	0.052 U	0.026 U	0.67	1.1 U	2.0 U	-	0.13 U
Benzene	ppbv	20	2	0.15 J	0.14 J	0.15 J	0.54 U	4.2 U	-	0.28 U
Chloroform (Trichloromethane)	ppbv	800	80	0.076 U	0.071 J	0.096 J	24	23	-	0.69 J
cis-1,2-Dichloroethene	ppbv	370	37	0.12 U	0.060 U	0.12 U	240	200	-	24
Ethylbenzene	ppbv	2500	250	0.23 J	0.068 U	0.15 J	0.66 U	5.2 U	-	0.34 U
m&p-Xylenes	ppbv	2000	200	0.79	0.12 U	0.48	1.4 U	9.1 U	-	0.60 U
Naphthalene	ppbv	29	2.9	0.18 U	0.090 U	6.2	2.6 U	6.8 U	-	0.45 U
o-Xylene	ppbv	2000	200	0.27 J	0.061 U	0.21 J	0.66 U	4.6 U	-	0.31 U
Tetrachloroethene	ppbv	250	25	3.0	1.5	0.92	3.5 J	3.2 J	-	0.68 J
Trichloroethene	ppbv	20	2	17	9.5	4.2	1200 ^a	940 ^a	1500 ^a	110 ^a
Vinyl chloride	ppbv	20	2	0.14 U	0.071 U	0.14 U	0.87 U	5.4 U	-	0.36 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 4
Summary of Building 14 - NexGen Vending Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				IA-14-A		IA-14-A		IA-14-A		IA-14-A		IA-14-A		IA-14-A		IA-14-B		IA-14-B		IA-14-B		IA-14-B			
Sample ID:				IA-38443-032712-JC-224		IA-38443-080212-GL-032		IA-38443-011614-GL-003		IA-38443-060314-GL-009		IA-38443-061516-GL-003		IA-38443-071117-GL-017		IA-38443-072518-JC-035		IA-38443-032712-JC-226		IA-38443-080212-GL-034		IA-38443-011614-GL-005		IA-38443-060314-GL-010	
Sample Date:				3/27/2012		8/2/2012		1/16/2014		6/3/2014		6/15/2016		7/11/2017		7/25/2018		3/27/2012		8/2/2012		1/16/2014		6/3/2014	
Parameters				ODH Non-Residential Screening Levels																					
				Units																					
				a	b																				
Volatile Organic Compounds																									
1,1-Dichloroethane				ppbv	160	16	0.026 U	0.046 J	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.050 U	0.035 J	0.055 J	0.026 U	0.026 U							
Benzene				ppbv	20	2	0.58	2.4 ^b	3.2 ^b	0.54	1.9	0.63	3.5 ^b	0.67	2.1 ^b	2.1 ^b	0.43								
Chloroform (Trichloromethane)				ppbv	800	80	0.038 U	0.15 J	0.038 U	0.038 U	0.074 J	0.093 J	0.13 J	0.038 U	0.18 J	0.038 U	0.073 J								
cis-1,2-Dichloroethene				ppbv	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.12 U	0.060 U	0.060 U								
Ethylbenzene				ppbv	2500	250	0.21	1.2	1.8	0.59	1.0	1.6	2.3	0.32	0.95	1.6	0.64								
m&p-Xylenes				ppbv	2000	200	0.58	4.4	6.2	2.2	3.3	6.1	7.8	1.3	3.6	5.4	2.3								
Naphthalene				ppbv	29	2.9	0.090 U	0.37 J	0.090 UJ	0.26 J	0.20 J	0.29 J	0.28 J	0.20 J	0.34 J	0.13 J	0.090 U								
o-Xylene				ppbv	2000	200	0.19 J	1.7	2.2	0.94	1.3	2.3	2.9	0.48	1.4	1.9	0.98								
Tetrachloroethene				ppbv	250	25	0.040 U	0.054 J	0.28	0.040 U	0.060 J	0.28	0.30 U	0.040 U	0.080 U	0.058 U	0.047 U								
Trichloroethene				ppbv	20	2	0.047 J	0.043 J	0.036 U	0.036 U	0.036 U	0.036 U	0.072 U	0.036 U	0.036 U	0.036 U	0.036 U								
Vinyl chloride				ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	0.071 U	0.14 U	0.071 U	0.071 U								

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 4

**Summary of Building 14 - NexGen Vending Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018**

Sample Location:				IA-14-B		IA-14-B		IA-14-B		IA-14-C		IA-14-C		IA-14-C		IA-14-C		IA-14-C		IA-14-C		IA-14-C					
Sample ID:				IA-38443-061516-GL-006		IA-38443-071117-GL-016		IA-38443-072518-JC-036		IA-38443-032712-JC-228		IA-38443-080212-GL-036		IA-38443-011614-GL-006		IA-38443-060314-GL-006		SDD-IA-14C-0215		IA-38443-071615-6L-037		IA-38443-071615-6L-038		IA-38443-061516-GL-005			
Sample Date:				6/15/2016		7/11/2017		7/25/2018		3/27/2012		8/2/2012		1/16/2014		6/3/2014		2/19/2015		7/16/2015		7/16/2015		Duplicate		6/15/2016	
Parameters				Units		ODH Non-Residential Screening Levels																					
						Sub-Slab Soil Gas									Indoor Air												
						a									b												
Volatile Organic Compounds																											
1,1-Dichloroethane				ppbv	160	16	0.026 U		0.026 U		0.051 U		0.026 U		0.052 U		0.026 U		0.026 U		0.27 U		0.026 U		0.026 U		
Benzene				ppbv	20	2	0.95		0.45		2.5 ^b		0.60		2.0		1.8		0.43		1		1.5		1.7		
Chloroform (Trichloromethane)				ppbv	800	80	0.14 J		0.14 J		0.10 J		0.038 U		0.15 J		0.038 J		0.070 J		0.14 U		0.13 J		0.14 J		
cis-1,2-Dichloroethene				ppbv	370	37	0.060 U		0.060 U		0.12 U		0.060 U		0.12 U		0.060 U		0.060 U		0.69 U		0.060 U		0.060 U		
Ethylbenzene				ppbv	2500	250	0.76		1.1		1.8		0.33		0.81		0.88		0.81		0.27 U		1.4		1.5		
m&p-Xylenes				ppbv	2000	200	2.6		4.0		6.0		1.3		3.1		2.9		0.59		5.7		6.2		2.3		
Naphthalene				ppbv	29	2.9	0.14 J		0.18 J		0.22 J		0.17 J		0.18 U		0.090 U		0.26 J		0.69 U		0.26 J		0.32 J		
o-Xylene				ppbv	2000	200	1.1		1.6		2.2		0.47		1.2		1.0		1.3		0.27 U		1.9		2.1		
Tetrachloroethene				ppbv	250	25	0.11 J		0.22		0.33 J		0.040 U		0.080 U		0.047 U		0.057 U		0.14 U		0.040 U		0.040 U		
Trichloroethene				ppbv	20	2	0.036 U		0.050 J		0.071 U		0.036 J		0.079 J		0.036 U		0.036 U		0.14 U		0.036 U		0.036 U		
Vinyl chloride				ppbv	20	2	0.071 U		0.071 U		0.14 U		0.071 U		0.14 U		0.071 U		0.071 U		0.14 U		0.071 U		0.071 U		

Notes:	
J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 4
Summary of Building 14 - NexGen Vending Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:															
Sample ID:															
Sample Date:															
Parameters	Units	ODH Non-Residential Screening Levels		IA-14-C	IA-14-C	OA-14-2014	OA-14-2014	OA-14-2014	OA-14-2014	OA-14-2014	OA-14-2014	SS-14-A	SS-14-A		
		Sub-Slab Soil Gas a	Indoor Air b	IA-38443-071117-GL-015	IA-38443-072518-JC-037	OA-38443-060314-GL-011	OA-38443-021915-GL-028	OA-38443-071615-6L-035	OA-38443-061516-GL-007	OA-38443-071117-GL-018	OA-38443-072518-JC-038	SS-38443-010612-JC-018	SS-38443-010612-JC-017		
				7/11/2017	7/25/2018	6/3/2014	2/19/2015	7/16/2015	6/15/2016	7/11/2017	7/25/2018	1/6/2012	1/6/2012		
				Duplicate											
				Volatile Organic Compounds											
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.052 U	0.026 U	0.026 UJ	0.026 U	0.026 U	0.026 U	0.026 U	500 ^a	320 ^a		
Benzene	ppbv	20	2	0.41	1.7	0.073 J	0.23 J	0.46	0.18 J	0.10 J	0.24	1.9 J	1.8 J		
Chloroform (Trichloromethane)	ppbv	800	80	0.16 J	0.12 J	0.038 U	0.038 UJ	0.038 U	0.038 U	0.038 U	0.038 U	0.62 U	0.74 U		
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.12 U	0.060 U	0.060 UJ	0.060 U	0.060 U	0.060 U	0.060 U	2.6 J	1.5 J		
Ethylbenzene	ppbv	2500	250	1.0	1.1	0.068 U	0.068 UJ	0.080 J	0.090 J	0.068 U	0.087 J	0.44 U	0.52 U		
m&p-Xylenes	ppbv	2000	200	3.7	3.5	0.22	0.12 UJ	0.33	0.29	0.17 J	0.30	0.96 U	1.1 U		
Naphthalene	ppbv	29	2.9	0.19 J	0.18 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	1.7 U	2.0 U		
o-Xylene	ppbv	2000	200	1.4	1.3	0.065 J	0.061 UJ	0.10 J	0.11 J	0.063 J	0.11 J	0.44 U	0.52 U		
Tetrachloroethene	ppbv	250	25	0.23	0.080 U	0.040 U	0.040 UJ	0.040 U	0.061 J	0.040 U	0.048 J	0.22 U	0.26 U		
Trichloroethene	ppbv	20	2	0.036 U	0.072 U	0.036 U	0.036 UJ	0.036 U	0.045 J	0.036 U	0.036 U	2.1 J	1.5 J		
Vinyl chloride	ppbv	20	2	0.071 U	0.14 U	0.071 U	0.071 UJ	0.071 U	0.071 U	0.071 U	0.071 U	84 ^a	70 ^a		

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated

1.0

Value greater than ODH Non-Residential Screening Level

Table 4
Summary of Building 14 - NexGen Vending Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A
Sample ID:				SS-38443-032812-JC-225	SS-38443-080212-GL-030	SS-38443-011614-GL-001	SS-38443-011614-GL-002	SS-38443-060314-GL-007	SS-38443-060314-GL-008	SDD-SS-14A-0215	SS-38443-021915-GL-026	SDD-SS-14A-0715	SS-38443-071615-6L-036	SS-38443-061516-GL-001
Sample Date:				3/28/2012	8/2/2012	1/16/2014	1/16/2014	6/3/2014	6/3/2014	2/19/2015	2/19/2015	7/16/2015	7/16/2015	6/15/2016
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas	Indoor Air											
		a	b											
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	970 ^a	4100 ^a	270 J ^a	160 J	720 ^a	650 ^a	173 ^a	85	0.17 U	0.026 U	1000 ^a
Benzene	ppbv	20	2	6.0 J	50 ^a	0.44	0.42	2.3 U	0.95	2.7 U	0.10 J	0.95	1.4	1.7 U
Chloroform (Trichloromethane)	ppbv	800	80	1.3 U	7.7 U	5.4	5.5	140	140	3	4.2	0.18	0.20	12
cis-1,2-Dichloroethene	ppbv	370	37	6.9	110	3.2	3.2	21	20	13.4 U	3.2	0.18 U	0.060 U	75
Ethylbenzene	ppbv	2500	250	2.4 U	14 U	0.14 J	0.14 U	2.8 U	0.41 J	5.3 U	0.33	0.70	0.91	2.0 U
m&p-Xylenes	ppbv	2000	200	4.2 U	24 U	0.48	0.24 U	5.0 U	1.7	10.7 U	0.71	2.4	3.5	3.6 U
Naphthalene	ppbv	29	2.9	3.1 U	18 UJ	0.18 U	0.18 U	3.7 U	0.82 J	13.4 U	0.13 J	1.0	0.16 J	2.7 UJ
o-Xylene	ppbv	2000	200	2.2 J	12 U	0.20 J	0.12 U	2.5 U	0.66	5.3 U	2.1	0.98	1.2	1.8 U
Tetrachloroethene	ppbv	250	25	1.4 U	8.1 U	0.11 J	3.8 J	1.7 U	0.87	2.7 U	0.22	0.10 U	0.084 J	1.4 J
Trichloroethene	ppbv	20	2	6.4 J	36 J ^a	4.0	3.6	27 ^a	30 ^a	4.6	6.4	1.1	0.91	150 ^a
Vinyl chloride	ppbv	20	2	820 J ^a	5500 ^a	4.9	4.5	17	14	2.7 U	0.28	0.27 U	0.071 U	3.1 J

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated

1.0

Value greater than ODH Non-Residential Screening Level

Table 4
Summary of Building 14 - NexGen Vending Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-B	SS-14-B	SS-14-B	SS-14-C	SS-14-C
Sample ID:				SS-38443-061516-GL-002	SS-38443-071117-GL-013	SS-38443-071117-GL-014	SS-38443-072518-JC-033	SS-38443-072518-JC-034	SS-38443-010612-JC-019	SS-38443-032712-JC-227	SS-38443-080212-GL-033	SS-38443-010612-JC-020	SS-38443-032712-JC-229
Sample Date:				6/15/2016	7/11/2017	7/11/2017	7/25/2018	7/25/2018	1/6/2012	3/27/2012	8/2/2012	1/6/2012	3/27/2012
Parameters	Units	ODH Non-Residential Screening Levels		Duplicate		Duplicate		Duplicate					
		Sub-Slab Soil Gas	Indoor Air										
		a	b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	710 ^a	0.040 U	0.026 U	680 ^a	730 ^a	54	77	130	0.14 U	0.071 J
Benzene	ppbv	20	2	1.8 U	0.47	0.46	1.7 U	1.7 U	0.14 U	0.077 J	0.11 U	0.072 U	0.056 U
Chloroform (Trichloromethane)	ppbv	800	80	7.1	0.20 J	0.19 J	9.5	9.7	0.93 J	1.1	3.0	0.12 U	0.043 J
cis-1,2-Dichloroethene	ppbv	370	37	49	0.092 U	0.060 U	89	91	0.43 J	0.97	2.2	0.056 U	0.060 U
Ethylbenzene	ppbv	2500	250	2.2 U	0.92	0.90	2.1 U	2.1 U	1.2 J	0.068 U	0.14 U	0.088 U	0.068 U
m&p-Xylenes	ppbv	2000	200	3.9 U	3.3	3.2	3.6 U	3.7 U	7.1	0.20	0.32 J	0.19 U	0.12 U
Naphthalene	ppbv	29	2.9	2.9 UJ	0.19 J	0.20 J	2.7 U	2.7 U	0.69 UJ	0.090 U	0.18 U	0.34 U	0.090 U
o-Xylene	ppbv	2000	200	2.0 U	1.2	1.2	1.8 U	1.9 U	3.9	0.084 J	0.15 J	0.088 U	0.061 U
Tetrachloroethene	ppbv	250	25	1.3 U	0.29 J	0.28	2.6 J	1.7 J	0.088 U	0.41	1.0	0.11 J	0.43
Trichloroethene	ppbv	20	2	94 ^a	0.42	0.40	260 ^a	250 ^a	3.5	4.7	16	2.5	27 ^a
Vinyl chloride	ppbv	20	2	3.4 J	0.11 U	0.071 U	2.2 U	2.2 J	0.23 U	0.071 U	0.14 U	0.12 U	0.071 U

Notes:

J	Estimated concentration
JN	Tentatively identified compound, estimated concentration
NJ	Tentatively identified compound, estimated concentration
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated

1.0

Value greater than ODH Non-Residential Screening Level

Table 4
Summary of Building 14 - NexGen Vending Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-14-C	SS-14-C	SS-14-C	SS-14-C
Sample ID:				SS-38443-080212-GL-035	SS-38443-011614-GL-004	SS-38443-060314-GL-005	SS-38443-061516-GL-004
Sample Date:				8/2/2012	1/16/2014	6/3/2014	6/15/2016
Parameters	Units	ODH Non-Residential Screening Levels					
		Sub-Slab Soil Gas a	Indoor Air b				
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.052 U	0.074 U	0.40
Benzene	ppbv	20	2	0.056 U	1.3	0.57	0.99
Chloroform (Trichloromethane)	ppbv	800	80	0.097 J	0.076 U	0.11 U	0.19 J
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.12 U	0.17 U	0.060 U
Ethylbenzene	ppbv	2500	250	0.068 U	0.38 J	0.71	0.70
m&p-Xylenes	ppbv	2000	200	0.12 U	1.4	2.6	2.2
Naphthalene	ppbv	29	2.9	0.090 UJ	0.43 J	0.27 J	0.16 J
o-Xylene	ppbv	2000	200	0.061 U	0.69	1.1	0.93
Tetrachloroethene	ppbv	250	25	0.28	0.080 U	0.11 U	0.12 J
Trichloroethene	ppbv	20	2	1.2	0.077 U	0.10 U	0.093 J
Vinyl chloride	ppbv	20	2	0.071 U	0.14 U	0.20 U	0.071 U

Notes:

J Estimated concentration

JN Tentatively identified compound, estimated concentration

NJ Tentatively identified compound, estimated concentration

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 5
Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:			IA-15-A		IA-15-A		IA-15-A		IA-15-A		IA-15-A		IA-15-A		IA-15-A		IA-15-B		IA-15-C		IA-15-C			
Sample ID:			IA-38443-031312-JC-175		IA-38443-021114-GL-001		IA-38443-042414-GL-002		IA-38443-021815-GL-019		IA-38443-071415-6L-016		IA-38443-061716-GL-023		IA-38443-071117-GL-020		IA-38443-072418-JC-027		IA-38443-031312-JC-177		IA-38443-031312-JC-179		IA-38443-021314-GL-005	
Sample Date:			3/13/2012		2/11/2014		4/24/2014		2/18/2015		7/14/2015		6/17/2016		7/11/2017		7/24/2018		3/13/2012		3/13/2012		2/13/2014	
Parameters	Units	ODH Non-Residential Screening Levels																						
		Sub-Slab Soil Gas	Indoor Air																					
		a	b																					
Volatile Organic Compounds																								
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.052 U	0.026 U	0.10 U	0.026 U									
Benzene	ppbv	20	2	0.46	0.29	0.23	0.23	0.16 J	0.23	0.16 J	0.20	0.30 J	0.51	0.51 J	0.63									
Chloroform (Trichloromethane)	ppbv	800	80	0.077 J	0.038 U	0.050 J	0.038 U	0.079 J	0.085 J	0.12 U	0.094 J	0.038 U	0.15 U	0.038 U	0.15 U	0.038 U								
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.24 U	0.060 U									
Ethylbenzene	ppbv	2500	250	0.15 J	0.13 J	0.15 J	0.068 U	0.11 J	0.076 J	0.12 J	0.14 U	0.12 J	0.43 J	0.39										
m&p-Xylenes	ppbv	2000	200	0.52	0.44	0.40	0.12 U	0.36	0.27	0.37	0.24 U	0.43	1.6	1.5										
Naphthalene	ppbv	29	2.9	0.25 J	0.090 U	0.090 U	0.090 U	0.13 J	0.19 J	0.17 J	0.18 U	0.090 U	0.36 U	0.090 U										
o-Xylene	ppbv	2000	200	0.21	0.17 J	0.20	0.061 U	0.15 J	0.11 J	0.15 J	0.12 U	0.17 J	0.46	0.46										
Tetrachloroethene	ppbv	250	25	0.84	2.3	2.8	1.3	1.6	2.9	2.8	0.77	1.4	3.9	3.9										
Trichloroethene	ppbv	20	2	5.2 ^b	2.0	3.0 ^b	1.4	1.7	1.5	1.8	1.4	0.13 J	1.6	0.59										
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	0.071 U	0.28 U	0.071 U									

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 5
Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-F	IA-15-F	IA-15-F	IA-15-F	IA-15-H
Sample ID:				IA-38443-021815-GL-021	SDD-IA-15C-0215	IA-38443-071415-6L-018	IA-38443-061716-GL-026	IA-38443-071117-GL-024	IA-38443-072418-JC-031	IA-38443-021114-GL-003	IA-38443-042414-GL-003	IA-38443-071117-GL-021	IA-38443-072418-JC-032	IA-38443-042414-GL-006	
Sample Date:				2/18/2015	2/18/2015	7/14/2015	6/17/2016	7/11/2017	7/24/2018	2/11/2014	4/24/2014	7/11/2017	7/24/2018	4/24/2014	
Parameters	Units	ODH Non-Residential Screening Levels													
		Sub-Slab Soil Gas	Indoor Air												
		a	b												
Volatile Organic Compounds															
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.24 U	0.026 U	0.13 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	20	2	0.22	0.28	0.68	0.35 J	0.38	1.6	0.25	0.20	0.53	0.095 J	1.2	
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.12 U	0.038 U	0.19 U	0.044 U	0.055 J	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.62 U	0.060 U	0.30 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.17 J	0.060 U	
Ethylbenzene	ppbv	2500	250	0.17 J	0.25 U	1.2	0.58 J	0.69	0.43	0.068 U	0.076 J	0.12 J	0.068 U	1.4	
m&p-Xylenes	ppbv	2000	200	0.62	0.72	5.4	2.4	3.0	1.8	0.22	0.27	0.41	0.12 U	5.3	
Naphthalene	ppbv	29	2.9	0.090 U	0.64 U	0.41 J	0.45 U	0.30 J	0.095 J	0.090 U	0.090 U	0.23 J	0.090 U	0.090 U	
o-Xylene	ppbv	2000	200	0.20	0.27	2.1	0.96 J	1.2	0.69	0.074 J	0.10 J	0.16 J	0.061 U	1.8	
Tetrachloroethene	ppbv	250	25	0.59	0.94	6.3	82 ^b	2.0	7.0	0.45	0.053 J	0.13 J	0.50	2.9	
Trichloroethene	ppbv	20	2	0.20	0.37	1.2	0.57 J	0.86	1.4	0.076 J	0.036 U	0.052 J	0.067 J	0.75	
Vinyl chloride	ppbv	20	2	0.071 U	0.13 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 5
Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:													
Sample ID:													
Sample Date:													
			OA-15	OA-15	OA-15	OA-15	OA-15	OA-15	OA-15	OA-15	OA-15	SS-15-A	SS-15-A
			OA-38443-031312-JC-174	OA-38443-021114-GL-006	OA-38443-042414-GL-007	OA-38443-021815-GL-022	OA-38443-071415-6L-013	OA-38443-061716-GL-027	OA-38443-071117-GL-025	OA-38443-072418-JC-028	SS-38443-011212-JC-074	SS-38443-031312-JC-176	
			3/13/2012	2/11/2014	4/24/2014	2/18/2015	7/14/2015	6/17/2016	7/11/2017	7/24/2018	1/12/2012	3/13/2012	
Parameters	Units	ODH Non-Residential Screening Levels											
		Sub-Slab Soil Gas	Indoor Air										
		a	b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.60 U	0.93 U
Benzene	ppbv	20	2	0.068 J	0.18 J	0.16 J	0.18 J	0.15 J	0.11 J	0.14 J	0.22	0.31 U	2.0 U
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.53 U	1.4 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	2.7 J	2.1 U
Ethylbenzene	ppbv	2500	250	0.068 U	0.068 U	0.073 J	0.068 U	0.080 J	0.068 U	0.11 J	0.12 J	0.38 U	2.4 U
m&p-Xylenes	ppbv	2000	200	0.12 U	0.19 J	0.23	0.12 U	0.26	0.15 J	0.39	0.43	0.82 U	4.3 U
Naphthalene	ppbv	29	2.9	0.090 U	0.090 U	0.090 U	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	1.5 U	3.2 U
o-Xylene	ppbv	2000	200	0.061 U	0.062 J	0.088 J	0.061 U	0.086 J	0.061 U	0.14 J	0.16 J	0.38 U	2.2 U
Tetrachloroethene	ppbv	250	25	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.22	0.040 U	0.040 U	7.6	7.1
Trichloroethene	ppbv	20	2	0.036 U	0.036 U	0.036 U	0.096 J	0.036 U	0.036 U	0.036 U	0.036 U	400 ^a	390 ^a
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.50 U	2.5 U

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 5
Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-B	SS-15-B
Sample ID:				SS-38443-021114-GL-002	SS-38443-042414-GL-001	SS-38443-021815-GL-018	SS-38443-071415-6L-014	SS-38443-071415-6L-015	SS-38443-061716-GL-022	SS-38443-071117-GL-019	SS-38443-072418-JC-026	SS-38443-011212-JC-071	SS-38443-031312-JC-178
Sample Date:				2/11/2014	4/24/2014	2/18/2015	7/14/2015	7/14/2015	6/17/2016	7/11/2017	7/24/2018	1/12/2012	3/13/2012
Parameters	Units	ODH Non-Residential Screening Levels											
		Sub-Slab Soil Gas	Indoor Air										
		a	b										
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.41	0.026 U	0.026 U	0.13 U	0.026 U	0.13 U	1.1 U	1.2 U
Benzene	ppbv	20	2	0.31	0.11 J	0.23	0.12 J	0.12 J	0.28 U	0.24	0.34 J	0.55 U	2.6 U
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.045 J	0.038 U	0.065 J	0.060 J	0.19 U	0.13 U	0.19 U	8.5	12
cis-1,2-Dichloroethene	ppbv	370	37	0.10 J	0.060 U	0.060 U	0.060 U	0.060 U	0.30 U	0.060 U	0.30 U	86	130
Ethylbenzene	ppbv	2500	250	0.22	0.068 U	0.47	0.068 U	0.068 U	0.34 U	0.12 J	0.34 U	0.67 U	3.2 U
m&p-Xylenes	ppbv	2000	200	0.51	0.12 U	2.2	0.19 J	0.18 J	0.60 U	0.37	3.1	1.5 U	5.6 U
Naphthalene	ppbv	29	2.9	0.090 U	0.090 U	0.55	0.097 J	0.090 UJ	0.45 U	0.28 J	0.45 U	2.6 U	4.2 U
o-Xylene	ppbv	2000	200	0.44	0.061 U	0.79	0.070 J	0.061 U	0.31 U	0.16 J	9.6	0.67 U	2.9 U
Tetrachloroethene	ppbv	250	25	1.5	1.2	0.83	2.4	2.4	3.1	2.2	1.7	1.3 J	2.5 J
Trichloroethene	ppbv	20	2	2.0	3.1	1.4	2.0	2.0	2.1	1.4	2.3	690 ^a	680 ^a
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.36 U	0.071 U	0.35 U	0.88 U	3.3 U

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 5
Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C
Sample ID:				SS-38443-011212-JC-072	SS-38443-011212-JC-073	SS-38443-031312-JC-180	SS-38443-021314-GL-004	SS-38443-042414-GL-004	SS-38443-042414-GL-005	SDD-SS-15C-0215	SS-38443-021815-GL-020	SDD-SS-15C-0715	SS-38443-071415-6L-017	SS-38443-061716-GL-024
Sample Date:				1/12/2012	1/12/2012	3/13/2012	2/13/2014	4/24/2014	4/24/2014	2/18/2015	2/18/2015	7/14/2015	7/14/2015	6/17/2016
Parameters	Units	ODH Non-Residential Screening Levels												
		Sub-Slab Soil Gas	Indoor Air											
		a	b		Duplicate				Duplicate					
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	R	8.8 U	14 U	2.8 U	3.0 U	3.1 U	0.27 U	0.10 U	1.2 U	0.28 U	0.26 U
Benzene	ppbv	20	2	R	230 ^a	320 ^a	36 ^a	60 ^a	62 ^a	8.4	5.9 J	1.6 U	2.5	1.2 J
Chloroform (Trichloromethane)	ppbv	800	80	R	7.8 U	20 U	4.1 U	4.4 U	4.6 U	0.13 U	0.15 U	1.0 U	0.71 J	0.38 U
cis-1,2-Dichloroethene	ppbv	370	37	R	7400 ^a	10000 ^a	1700 ^a	2200 ^a	2300 ^a	125	130 J	480 D ^a	780 ^a	10
Ethylbenzene	ppbv	2500	250	R	320	540	70	180	180	8.5	5.8 J	1.1 U	0.78 J	1.1 J
m&p-Xylenes	ppbv	2000	200	R	820	1300	130	410	410	6	4.0 J	2.3 U	1.3 U	4.0
Naphthalene	ppbv	29	2.9	R	22 U	47 U	9.7 U	10 U	11 U	0.68 U	0.36 U	0.95 U	0.95 UJ	0.90 U
o-Xylene	ppbv	2000	200	R	710	1100	170	400	400	34	33 J	1.5	3.1	3.6
Tetrachloroethene	ppbv	250	25	R	2.8 U	21 U	4.3 U	4.6 U	4.8 U	3.2	2.5 J	21	28	100
Trichloroethene	ppbv	20	2	R	95 ^a	120 ^a	25 ^a	61 ^a	63 ^a	16.4	12 J	72 ^a	87 ^a	2.8
Vinyl chloride	ppbv	20	2	R	1100 ^a	1700 ^a	350 ^a	99 ^a	97 ^a	0.13 U	6.6 J	17	26 ^a	1.5 J

Notes:

D Compounds at secondary dilution factor.

J Estimated concentration

NJ Tentatively identified compound, estimated concentration

R Rejected

U Not detected at the associated reporting limit

UJ Not detected; associated reporting limit is estimated

1.0 Value greater than ODH Non-Residential Screening Level

Table 5
Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2018

Sample Location:				SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C
Sample ID:				SS-38443-061716-GL-025	SS-38443-071117-GL-022	SS-38443-071117-GL-023	SS-38443-072418-JC-029	SS-38443-072418-JC-030
Sample Date:				6/17/2016	7/11/2017	7/11/2017	7/24/2018	7/24/2018
Parameters	Units	ODH Non-Residential Screening Levels		Duplicate		Duplicate		Duplicate
		Sub-Slab Soil Gas a	Indoor Air b					
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	160	16	0.13 U	0.30 U	0.17 U	0.26 U	0.13 U
Benzene	ppbv	20	2	1.1	8.0	6.6	4.6	5.3 J
Chloroform (Trichloromethane)	ppbv	800	80	0.19 U	0.44 U	0.25 U	0.38 U	0.21 J
cis-1,2-Dichloroethene	ppbv	370	37	9.3	74	60	64	66 J
Ethylbenzene	ppbv	2500	250	1.1	19	15	7.0 J	12 J
m&p-Xylenes	ppbv	2000	200	3.7	61	51	24 J	43 J
Naphthalene	ppbv	29	2.9	0.45 U	2.6 J	2.1 J	2.5 J	3.4 J
o-Xylene	ppbv	2000	200	3.7	65	54	27 J	47 J
Tetrachloroethene	ppbv	250	25	100	4.6	3.3	1.6 U	1.3 J
Trichloroethene	ppbv	20	2	2.7	16	13	12	14 J
Vinyl chloride	ppbv	20	2	1.5	6.2	6.7	5.9	6.1 J

Notes:

D	Compounds at secondary dilution factor.
J	Estimated concentration
NJ	Tentatively identified compound, estimated concentration
R	Rejected
U	Not detected at the associated reporting limit
UJ	Not detected; associated reporting limit is estimated
1.0	Value greater than ODH Non-Residential Screening Level

Table 6

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1 / Storage area ambient air, without filter	1/19/2012	11:50	0.9	22.1	0.1	0.0	ND(1) ¹			
5173 / 1 / C / Storage area, without filter		12:01	391	7.5	2.7	0.9	19			
5173 / 1 / Storage area ambient air, without filter	1/24/2012	10:00	0	21.5	0.0	0.0	0			
5173 / 1 / C / Storage area, without filter		10:09	96.7	5.5	2.8	0.9	19			
5173 / 1 / Storage area ambient air, without filter	1/31/2012	10:50	1	21.6	0.0	0.0	0			
5173 / 1 / C / Storage area, without filter		11:14	182.7	5.5	3.1	1.1	25			
5173 / 1 / Storage area ambient air, without filter	2/7/2012	10:44	0.1	21.7	0.1	0.0	0			
5173 / 1 / C / Storage area, without filter		10:56	142.3	10.9	1.8	0.9	21			
5173 / 1 / Storage area ambient air, without filter	2/16/2012	10:40	0.1	20.5	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		11:04	79.4	14.1	3.1	0.5	10			
5173 / 1 / C / Storage area without filter		11:04	79.4	18.1	0.3	0.2	3			
5173 / 1 / Storage area ambient air, without filter	3/1/2012	11:36	0.1	21.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		12:46	196.5	13.8	0.2	0.3	7			
5173 / 1 / C / Storage area without filter		12:48	196.5	16.9	1.5	0.4	9			
5173 / 1 / Storage area ambient air	3/13/2012	9:32	0	20.1	0.8	0.0	0			
5173 / 1 / C / Storage area with filter		10:20	101.2	1.0	3.3	0.8	18			
5173 / 1 / C / Storage area without filter			101.2	0.4	4.7	1.4	27			
5173 / 1 / A ambient air without filter		9:57	0	21.0	0.1	0.0	0			
5173 / 1 / A with filter		10:15	0	16.9	3.0	0.0	0			
5173 / 1 / B ambient air without filter		9:30	0	21.4	0.0	0.0	0			
5173 / 1 / B with filter		9:48	0.2	9.1	7.9	0.0	0			
5173 / 1 / Storage area ambient air, without filter		11:50	0	20.5	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	3/22/2012	12:44	105.8	3.2	1.2	0.7	11			
5173 / 1 / C / Storage area without filter		12:47	105.8	3.0	5.1	1.1	24			
5173 / 1 / Storage area ambient air, without filter	3/27/2012		0.1	21.5	0.0	0.0	0			
5173 / 1 / C / Storage area with filter			17.1	3.9	1.9	0.9	17			
5173 / 1 / C / Storage area without filter		10:56	17.1	5.9	5.4	1.2	26			
5173 / 1 / Storage area ambient air, without filter	4/3/2012	12:30	0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:09	136.8	1.9	0.4	0.8	19			
5173 / 1 / C / Storage area without filter		13:10	136.8	1.7	5.1	1.4	29			
5173 / 1 / Storage area ambient air, without filter	4/10/2012	11:05	0	21.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		11:52	206.1	3.0	0.5	0.8	19			
5173 / 1 / C / Storage area without filter		11:53	206.1	3.1	1.2	0.9	27			
5173 / 1 / Storage area ambient air, without filter	4/17/2012	10:15	0	21.5	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		10:32	129.8	2.3	2.2	0.9	19			
5173 / 1 / C / Storage area without filter		10:37	129.8	1.5	5.5	1.4	28			
5173 / 1 / Storage area ambient air, without filter	4/26/2012	11:13	0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		11:27	120.7	2.2	1.7	0.9	10			
5173 / 1 / C / Storage area without filter		11:31	120.7	14.9	1.6	0.5	12			
5173 / 1 / Storage area ambient air, without filter	5/3/2012	11:33	0	20.2	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		11:45	122.1	15.2	0.8	0.3	5			
5173 / 1 / C / Storage area without filter		11:48	122.1	9.5	3.4	0.7	14			
5173 / 1 / Storage area ambient air, without filter	5/10/2012	13:58	0	20.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:10	167.9	10.7	0.9	0.6	14			
5173 / 1 / C / Storage area without filter		14:11	167.9	7.8	3.8	0.9	18			
5173 / 1 / Storage area ambient air, without filter	5/15/2012		0	20.1	0.0	0.0	0			
5173 / 1 / C / Storage area with filter			80.4	10.7	0.2	0.5	10			
5173 / 1 / C / Storage area without filter			80.4	20.8	0.3	0.1	2			
5173 / 1 / Storage area ambient air, without filter	5/24/2012	13:15	0.0	20.8	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:39	107.1	1.2	6.2	0.9	18			
5173 / 1 / C / Storage area without filter		13:47	107.1	2.2	6.4	1.3	26			
5173 / 1 / Storage area ambient air, without filter	5/31/2012	11:04	0.0	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		11:14	116.6	8.7	1.5	0.3	7			
5173 / 1 / C / Storage area without filter		11:20	116.6	16.8	2.0	0.7	27			
5173 / 1 / Storage area ambient air, without filter	6/7/2012	10:24	0.0	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		10:33	102.2	0.9	6.2	1.1	22			
5173 / 1 / C / Storage area without filter		10:44	102.2	1.8	7.0	1.4	28			
5173 / 1 / Storage area ambient air, without filter	6/14/2012	10:55	0.0	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		11:07	72.0	5.5	3.5	0.7	20			
5173 / 1 / C / Storage area without filter		11:13	72.0	3.8	4.3	1.0	21			
5173 / 1 / Storage area ambient air, without filter	6/19/2012	10:33	0.0	20.2	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		10:55	78.0	1.8	2.3	1.3	26			
5173 / 1 / C / Storage area without filter		10:57	78.0	1.3	7.3	2.2	43			
5173 / 1 / Storage area ambient air, without filter	6/28/2012	10:01	0.0	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		10:11	65.7	5.8	3.2	0.7	21			
5173 / 1 / C / Storage area without filter		10:11	65.7	3.7	4.7	1.1	27			
5173 / 1 / Storage area ambient air, without filter	7/3/2012	10:15	0.0	19.7	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		10:56	68.0	1.9	7.6	1.7	36			
5173 / 1 / C / Storage area without filter		10:58	68.0	1.9	6.4	1.3	25			

Table 6

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1	7/11/2012	Access unavailable							
5173 / 1 / Storage area ambient air, without filter	7/19/2012	13:15	0.1	20.4	0.0	0			
5173 / 1 / C / Storage area with filter		13:40	65.9	1.7	6.5	1.8 38			
5173 / 1 / C / Storage area without filter		13:40	65.9	1.6	7.9	2.6 51			
5173 / 1 / Storage area ambient air, without filter	7/26/2012	9:45	0.0	20.2	0.0	0			
5173 / 1 / C / Storage area with filter		9:54	0.0	2.4	6.2	1.9 43			
5173 / 1 / C / Storage area without filter		9:54	0.0	1.0	7.7	3.2 63			
5173 / 1 / Storage area ambient air, with filter	8/2/2012	9:40	0.0	20.6	0.0	0	90s	none	
5173 / 1 / Storage area ambient air, without filter		9:40	0.0	20.7	0.0	0			
5173 / 1 / C / Storage area with filter		9:52	79.6	9.2	0.1	1.1 17			
5173 / 1 / C / Storage area without filter		9:52	79.6	6.9	5.3	1.8 38			
5173 / 1 / Storage area ambient air, with filter	8/7/2012	9:57	--	--	--	0	low 90s	none	
5173 / 1 / Storage area ambient air, without filter		9:57	0.3	20.7	0.1	0			
5173 / 1 / C / Storage area with filter		10:06	--	--	--	43			
5173 / 1 / C / Storage area without filter		10:06	116.5	3.7	6.7	2.9 57			
5173 / 1 / A / Office area ambient air with filter	8/16/2012	11:55	0.1	20.3	0.0	0	80 - low 90s	none	
5173 / 1 / A / Office area ambient air without filter		11:55	0.1	20.2	0.0	0			
5173 / 1 / A / Office area with filter		11:58	2.5	19.5	0.3	0			
5173 / 1 / A / Office area without filter		11:58	2.5	19.7	0.9	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		11:52	0.3	20.6	0.0	0			
5173 / 1 / Storage area ambient air, without filter		11:52	0.3	20.6	0.0	0			
5173 / 1 / C / Storage area with filter		12:26	100.7	0.5	6.1	2.2 47			
5173 / 1 / C / Storage area without filter	12:26	100.7	1.3	6.7	3.1 62				
5173 / 1 / A / Office area ambient air with filter	8/21/2012	14:05	0.0	21.1	0.0	0	80s	none	
5173 / 1 / A / Office area ambient air without filter		14:05	0.0	21.0	0.0	0			
5173 / 1 / A / Office area with filter		14:20	2.0	19.5	0.1	0			
5173 / 1 / A / Office area without filter		14:20	2.0	19.7	0.8	0			
5173 / 1 / B / Firing Range ambient air with filter		13:45	0.0	20.4	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:45	0.0	20.4	0.0	0			
5173 / 1 / B / Firing Range with filter		13:55	2.3	4.4	12.2	0			
5173 / 1 / B / Firing Range without filter		13:55	2.3	6.3	11.0	0			
5173 / 1 / Storage area ambient air, with filter		14:25	0.0	21.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		14:25	0.0	21.4	0.0	0			
5173 / 1 / C / Storage area with filter	8/21/2012	14:37	110.9	0.5	5.0	2.1 42	80s	none	
5173 / 1 / C / Storage area without filter		14:37	110.9	4.8	5.1	2.3 46			
5173 / 1 / A / Office area ambient air without filter			0.0	20.0	0.0	0			
5173 / 1 / A / Office area with filter	8/30/2012	13:44	0.5	19.5	0.9	0	80s	none	
5173 / 1 / A / Office area without filter		13:44	0.5	19.4	1.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:57	0.0	20.7	0.0	0			
5173 / 1 / B / Firing Range with filter		14:07	1.2	5.5	11.0	0			
5173 / 1 / B / Firing Range without filter		14:07	1.2	5.3	11.6	0			
5173 / 1 / Storage area ambient air, without filter		13:03	0.0	20.5	0.0	0			
5173 / 1 / C / Storage area with filter		13:21	39.1	1.4	3.8	1.9 39			
5173 / 1 / C / Storage area without filter		13:21	39.1	0.9	6.6	2.8 57			
5173 / 1 / A / Office area ambient air with filter	9/6/2012		0.0	20.6	0.0	0	80s	rain daily during week of September 2 to 6	
5173 / 1 / A / Office area ambient air without filter			0.0	20.8	0.0	0			
5173 / 1 / A / Office area with filter		14:07	3.8	19.4	0.1	0			
5173 / 1 / A / Office area without filter		14:07	3.8	19.2	0.9	0			
5173 / 1 / B / Firing Range ambient air with filter			0.0	20.3	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter			0.0	20.4	0.0	0			
5173 / 1 / B / Firing Range with filter		14:00	3.8	62.0	9.9	0			
5173 / 1 / B / Firing Range without filter		14:00	3.8	63.0	11.4	0			
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	20.3	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.2	0.0	0			
5173 / 1 / C / Storage area with filter	9/6/2012	13:41	140.4	0.9	5.0	1.9 38	80s	rain daily during week of September 2 to 6	
5173 / 1 / C / Storage area without filter		13:41	140.4	0.8	6.3	2.8 58			
5173 / 1 / A / Office area ambient air with filter	9/13/2012		0.0	20.9	0.0	0	high 70s - low 80s	none	
5173 / 1 / A / Office area ambient air without filter			0.0	20.7	0.0	0			
5173 / 1 / A / Office area with filter		12:08	0.5	19.6	0.2	0			
5173 / 1 / A / Office area without filter		12:08	0.5	19.2	1.0	0			
5173 / 1 / B / Firing Range ambient air with filter			0.0	21.3	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter			0.0	21.1	0.0	0			
5173 / 1 / B / Firing Range with filter		12:23	1.9	5.8	9.7	0			
5173 / 1 / B / Firing Range without filter		12:23	1.9	5.5	11.8	0			
5173 / 1 / Storage area ambient air, with filter			0.0	21.2	0.0	0			
5173 / 1 / Storage area ambient air, without filter			0.0	21.2	0.0	0			
5173 / 1 / C / Storage area with filter	9/13/2012	60.2	0.8	5.1	2.3 45	high 70s - low 80s	none		
5173 / 1 / C / Storage area without filter		60.2	1.0	6.0	2.7 55				

Table 6

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	9/20/2012	11:55	0.0	20.3	0.1	0.0	low 70s	none		
5173 / 1 / A / Office area ambient air without filter		11:55	0.0	20.3	0.0	0.0				
5173 / 1 / A / Office area with filter		12:04	0.6	18.0	0.2	0.0				
5173 / 1 / A / Office area without filter		12:04	0.6	17.8	1.5	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:15	0.0	20.9	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:15	0.0	20.9	0.0	0.0				
5173 / 1 / C / Storage area with filter		12:23	88.5	1.9	4.5	2.0				41
5173 / 1 / C / Storage area without filter		12:23	88.5	1.8	5.3	2.6				52
5173 / 1 / SIM Trainer	9/27/2012	Inaccessible						60s - 70s	none	
5173 / 1 / A / Office area ambient air with filter	10/2/2012	13:05	0.0	21.1	0.0	0.0	mid 60s	light rain		
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.1	0.0	0.0				
5173 / 1 / A / Office area with filter		13:09	0.7	15.6	0.7	0.0				
5173 / 1 / A / Office area without filter		13:09	0.7	17.4	1.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:50	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		12:50	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range with filter		13:00	0.7	4.6	10.3	0.0				
5173 / 1 / B / Firing Range without filter		13:00	0.7	4.7	10.5	0.0				
5173 / 1 / Storage area ambient air, with filter		13:13	0.0	21.2	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:13	0.0	21.2	0.0	0.0				
5173 / 1 / C / Storage area with filter		13:17	57.3	0.8	5.8	2.0				40
5173 / 1 / C / Storage area without filter		13:17	57.3	0.9	5.0	2.8				56
5173 / 1 / A / Office area ambient air with filter	10/18/2012	13:15	0.0	21.2	0.1	0.0	mid 70s	none		
5173 / 1 / A / Office area ambient air without filter		13:15	0.0	21.3	0.0	0.0				
5173 / 1 / A / Office area with filter		13:44	0.8	16.3	2.4	0.0				
5173 / 1 / A / Office area without filter		13:44	0.8	16.2	2.5	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	21.3	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.3	0.0	0.0				
5173 / 1 / C / Storage area with filter		13:50	104.2	1.8	3.8	1.5				30
5173 / 1 / C / Storage area without filter		13:50	104.2	1.9	4.3	1.9				38
5173 / 1 / A / Office area ambient air with filter	10/25/2012	13:35	0.0	21.0	0.1	0.0	70s	none		
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.0	0.1	0.0				
5173 / 1 / A / Office area with filter		14:17	2.4	15.6	0.8	0.0				
5173 / 1 / A / Office area without filter		14:17	2.4	15.2	2.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:06	0.0	20.5	0.1	0.0				1 ^R
5173 / 1 / B / Firing Range ambient air without filter		13:06	0.0	20.3	0.0	0.0				
5173 / 1 / B / Firing Range with filter		14:20	1.0	3.8	9.6	0.0				
5173 / 1 / B / Firing Range without filter		14:20	1.0	4.1	10.0	0.0				
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	21.0	0.1	0.0				1 ^R
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.9	0.0	0.0				
5173 / 1 / C / Storage area with filter		14:24	72.9	1.3	3.7	1.5				31
5173 / 1 / C / Storage area without filter		14:24	72.9	1.4	4.1	2.0				41
5173 / 1 / A / Office area ambient air with filter	10/30/2012	13:35	0.0	21.9	0.1	0.0	30s - 40s	snow & rain		
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.9	0.1	0.0				
5173 / 1 / A / Office area with filter		14:55	1.6	14.2	1.8	0.0				
5173 / 1 / A / Office area without filter		14:55	1.6	14.3	3.2	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:48	0.0	21.3	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:48	0.0	21.4	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:02	1.6	4.0	9.5	0.0				
5173 / 1 / B / Firing Range without filter		15:02	1.6	4.1	10.5	0.0				
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	22.2	0.1	0.0				
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	22.1	0.1	0.0				
5173 / 1 / C / Storage area with filter		15:06	79.5	1.2	4.3	1.6				34
5173 / 1 / C / Storage area without filter		15:06	79.5	1.4	4.1	2.1				43
5173 / 1 / A / Office area ambient air with filter	11/8/2012	14:02	1.4	21.4	0.1	0.0	30s - 40s	none		
5173 / 1 / A / Office area ambient air without filter		14:02	1.4	21.5	0.1	0.0				
5173 / 1 / A / Office area with filter		15:21	4.2	13.7	3.2	0.0				
5173 / 1 / A / Office area without filter		15:21	4.2	13.7	3.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		14:15	1.2	21.0	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		14:15	1.2	21.1	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:26	1.8	4.5	9.5	0.0				
5173 / 1 / B / Firing Range without filter		15:26	1.8	4.8	9.9	0.0				
5173 / 1 / Storage area ambient air, with filter		13:35	1.3	20.9	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:35	1.3	21.1	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:36	165.5	1.2	3.2	1.4				27
5173 / 1 / C / Storage area without filter		15:36	165.5	2.2	3.5	1.6				33

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	11/15/2012	13:37	0.0	21.7	0.2	0.0	30s - 40s	none		
5173 / 1 / A / Office area ambient air without filter		13:37	0.0	21.8	0.1	0.0				
5173 / 1 / A / Office area with filter		15:32	0.0	14.3	3.3	0.0				
5173 / 1 / A / Office area without filter		15:32	0.0	14.6	3.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:58	0.0	21.7	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:58	0.0	21.9	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:43	0.0	4.3	9.5	0.0				
5173 / 1 / B / Firing Range without filter		15:43	0.0	4.5	9.8	0.0				
5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.8	0.2	0.0				
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.4	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:45	92.6	1.4	2.5	1.0				21
5173 / 1 / C / Storage area without filter		15:45	92.6	1.4	3.4	1.3				27
5173 / 1 / A / Office area ambient air with filter	11/20/2012	13:03	0.0	20.9	0.1	0.0	50s	Trace		
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	20.9	0.1	0.0				
5173 / 1 / A / Office area with filter		14:45	0.0	13.8	3.2	0.0				
5173 / 1 / A / Office area without filter		14:45	0.0	13.9	3.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:09	0.0	21.0	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:09	0.0	21.1	0.0	0.0				
5173 / 1 / B / Firing Range with filter		14:50	0.0	4.6	9.7	0.0				
5173 / 1 / B / Firing Range without filter		14:50	0.0	4.7	10.1	0.0				
5173 / 1 / Storage area ambient air, with filter		13:08	0.0	20.9	0.1	0.0				
5173 / 1 / Storage area ambient air, without filter		13:08	0.0	21.0	0.0	0.0				
5173 / 1 / C / Storage area with filter		14:53	183.7	13.6	1.3	0.4				9
5173 / 1 / C / Storage area without filter		14:53	183.7	10.8	1.8	0.8				16
5173 / 1 / A / Office area ambient air with filter	11/29/2012	12:31	0.6	21.3	0.1	0.0	40s - 50s	None		
5173 / 1 / A / Office area ambient air without filter		12:31	0.6	21.3	0.1	0.0				
5173 / 1 / A / Office area with filter		14:05	1.8	13.1	4.0	0.0				
5173 / 1 / A / Office area without filter		14:05	1.8	13.3	4.1	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:40	0.4	21.2	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter		12:40	0.4	21.2	0.1	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:37	0.3	21.3	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:37	0.3	21.3	0.0	0.0				
5173 / 1 / C / Storage area with filter		14:23	120.4	2.4	2.8	1.1				22
5173 / 1 / C / Storage area without filter		14:23	120.4	2.2	3.0	1.5				30
5173 / 1 / A / Office area ambient air with filter		12/4/2012	13:26	0.0	21.3	0.0				0.0
5173 / 1 / A / Office area ambient air without filter	13:26		0.0	21.2	0.1	0.0				
5173 / 1 / A / Office area with filter	15:29		0.1	13.6	4.5	0.0				
5173 / 1 / A / Office area without filter	15:29		0.1	13.7	4.2	0.0				
5173 / 1 / B / Firing Range ambient air with filter	14:17		0.0	21.0	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter	14:17		0.0	21.0	0.0	0.0				
5173 / 1 / B / Firing Range with filter	15:34		0.2	9.1	7.1	0.0				
5173 / 1 / B / Firing Range without filter	15:34		0.2	9.1	7.3	0.0				
5173 / 1 / Storage area ambient air, with filter	13:07		0.0	21.4	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter	13:07		0.0	21.0	0.0	0.0				
5173 / 1 / C / Storage area with filter	15:39		66.6	1.6	4.2	1.0	19			
5173 / 1 / C / Storage area without filter	15:39		66.6	1.6	3.6	1.3	27			
5173 / 1 / A / Office area ambient air with filter	12/13/2012	14:18	0.0	22.0	0.0	0.0	40s	sunny		
5173 / 1 / A / Office area ambient air without filter		14:18	0.0	22.0	0.0	0.0				
5173 / 1 / A / Office area with filter		15:17	0.0	14.9	2.5	0.1 U				1 U
5173 / 1 / A / Office area without filter		15:17	0.0	14.6	4.2	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:54	0.0	22.0	0.0	0.1 U				2 U
5173 / 1 / B / Firing Range ambient air without filter		13:54	0.0	21.8	0.1	0.0				0
5173 / 1 / B / Firing Range with filter		15:23	1.6	6.4	8.8	0.0				1 U
5173 / 1 / B / Firing Range without filter		15:23	1.6	6.1	9.7	0.1				1
5173 / 1 / Storage area ambient air, with filter		13:58	0.0	22.0	0.1	0.1 U				2 U
5173 / 1 / Storage area ambient air, without filter		13:58	0.0	22.1	0.1	0.0				0
5173 / 1 / C / Storage area with filter		15:34	109.7	2.0	2.6	1.0				19
5173 / 1 / C / Storage area without filter		15:34	109.7	1.9	3.2	1.2				25
5173 / 1 / A / Office area ambient air with filter	12/18/2012	13:55	0.0	21.7	0.1	0.0	40s	none		
5173 / 1 / A / Office area ambient air without filter		13:55	0.0	21.6	0.2	0.0				
5173 / 1 / A / Office area with filter		14:41	0.8	14.9	3.8	0.0				
5173 / 1 / A / Office area without filter		14:41	0.8	14.7	4.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		14:04	0.0	21.5	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter		14:04	0.0	21.6	0.1	0.0				
5173 / 1 / B / Firing Range with filter		14:51	0.7	6.2	9.3	0.0				
5173 / 1 / B / Firing Range without filter		14:51	0.7	6.4	9.7	0.0				
5173 / 1 / Storage area ambient air, with filter		13:58	0.0	21.4	0.3	0.0				
5173 / 1 / Storage area ambient air, without filter		13:58	0.0	21.4	0.4	0.0				
5173 / 1 / C / Storage area with filter		14:56	114.9	1.3	3.8	0.9				19
5173 / 1 / C / Storage area without filter		14:56	114.9	1.4	3.6	1.3				26

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	12/27/2012	13:05	0.0	21.0	0.0	0.0	0	30s	none	
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:15	0.7	15.4	4.1	0.0	0			
5173 / 1 / A / Office area without filter		14:15	0.7	15.5	4.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:03	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:25	0.5	8.1	8.7	0.0	0			
5173 / 1 / B / Firing Range without filter		14:25	0.5	7.8	9.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:00	0.0	21.0	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:00	0.0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:35	75.0	16.5	1.1	0.3	5			
5173 / 1 / C / Storage area without filter		14:35	75.0	12.0	1.5	0.5	10			
5173 / 1 / A / Office area ambient air with filter	1/3/2013	12:50	0.1	21.2	0.1	0.0	0	10s - 20s	None	
5173 / 1 / A / Office area ambient air without filter		12:50	0.1	21.2	0.1	0.0	0			
5173 / 1 / A / Office area with filter		14:15	0.3	17.9	2.4	0.0	0			
5173 / 1 / A / Office area without filter		14:15	0.3	16.9	3.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		12:57	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		12:57	0.0	21.2	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:26	0.4	8.7	8.4	0.0	0			
5173 / 1 / B / Firing Range without filter		14:26	0.4	8.7	8.4	0.0	0			
5173 / 1 / Storage area ambient air, with filter		12:55	0.0	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		12:55	0.0	21.3	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:34	90.4	4.0	2.6	0.7	15			
5173 / 1 / C / Storage area without filter		14:34	90.4	2.5	2.7	1.1	22			
5173 / 1 / A / Office area ambient air with filter	1/10/2013	13:28	0.0	21.1	0.1	0.0	0	30s	Trace	
5173 / 1 / A / Office area ambient air without filter		13:28	0.0	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:24	1.0	16.0	3.7	0.0	0			
5173 / 1 / A / Office area without filter		14:24	1.0	16.0	3.9	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:26	0.1	20.8	0.2	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:26	0.1	21.0	0.1	0.0	0			
5173 / 1 / B / Firing Range with filter		14:30	0.9	9.1	7.8	0.0	0			
5173 / 1 / B / Firing Range without filter		14:30	0.9	9.4	7.9	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:24	0.1	21.0	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:24	0.1	21.1	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:45	52.2	3.1	3.0	0.6	12			
5173 / 1 / C / Storage area without filter		14:45	52.2	3.2	2.8	0.9	17			
5173 / 1 / A / Office area ambient air with filter	1/17/2013	13:10	0.0	21.3	0.1	0.0	0	30s	None	
5173 / 1 / A / Office area ambient air without filter		13:10	0.0	21.4	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:00	1.0	13.5	4.2	0.0	0			
5173 / 1 / A / Office area without filter		14:00	1.0	13.5	4.3	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:08	0.1	21.3	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:08	0.1	21.3	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:07	0.3	8.9	8.5	0.0	0			
5173 / 1 / B / Firing Range without filter		14:07	0.3	8.9	8.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:06	0.1	21.3	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:06	0.1	21.3	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:21	92.9	1.5	3.3	0.8	16			
5173 / 1 / C / Storage area without filter		14:21	92.9	1.6	3.2	1.0	21			
5173 / 1 / A / Office area ambient air with filter	1/24/2013	13:45	0.0	22.2	0.1	0.0	0	10 - 20s	None	
5173 / 1 / A / Office area ambient air without filter		13:45	0.0	21.9	0.1	0.0	0			
5173 / 1 / A / Office area with filter		15:56	0.0	16.2	2.9	0.0	0			
5173 / 1 / A / Office area without filter		15:56	0.0	15.9	4.1	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:36	0.0	22.4	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:36	0.0	22.4	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		16:01	0.4	7.2	8.2	0.0	0			
5173 / 1 / B / Firing Range without filter		16:01	0.4	6.7	9.0	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:25	0.0	21.3	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:25	0.0	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		16:08	53.0	2.5	2.8	0.6	12			
5173 / 1 / C / Storage area without filter		16:08	53.0	1.9	2.8	0.9	18			

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	1/31/2013	13:33	0.0	22.1	0.1	0.0	10 - 20s	None		
5173 / 1 / A / Office area ambient air without filter		13:33	0.0	22.2	0.1	0.0				0
5173 / 1 / A / Office area with filter		15:35	0.1	15.7	2.6	0.0				0
5173 / 1 / A / Office area without filter		15:35	0.1	14.8	4.4	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		14:10	0.0	22.3	0.1	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		14:10	0.0	22.6	0.1	0.0				0
5173 / 1 / B / Firing Range with filter		15:41	0.2	6.4	9.0	0.0				0
5173 / 1 / B / Firing Range without filter		15:41	0.2	6.6	9.5	0.0				0
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	22.1	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.8	0.1	0.0				0
5173 / 1 / C / Storage area with filter		15:46	76.7	1.9	4.3	0.6				12
5173 / 1 / C / Storage area without filter		15:46	76.7	1.6	3.2	0.9				19
5173 / 1 / A / Office area ambient air with filter	2/7/2013	14:07	0.4	21.8	0.1	0.0	20s - 50s	none		
5173 / 1 / A / Office area ambient air without filter		14:07	0.4	21.8	0.2	0.0				0
5173 / 1 / A / Office area with filter		15:09	0.8	15.4	3.5	0.0				0
5173 / 1 / A / Office area without filter		15:09	0.8	15.0	4.2	0.0				0
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:54	0.2	21.4	0.1	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:54	0.2	21.2	0.0	0.0				0
5173 / 1 / C / Storage area with filter		15:21	135.7	2.0	3.4	0.6				13
5173 / 1 / C / Storage area without filter		15:21	135.7	1.5	3.0	0.9				19
5173 / 1 / A / Office area ambient air with filter	2/12/2013	13:01	0.1	21.2	0.0	0.0	30s - 40s	none		
5173 / 1 / A / Office area ambient air without filter		13:01	0.1	21.2	0.1	0.0				0
5173 / 1 / A / Office area with filter		14:30	0.9	15.4	3.6	0.0				0
5173 / 1 / A / Office area without filter		14:30	0.9	15.2	4.3	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	21.2	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:03	0.0	21.2	0.0	0.0				0
5173 / 1 / B / Firing Range with filter		14:23	0.4	9.4	7.9	0.0				0
5173 / 1 / B / Firing Range without filter		14:23	0.4	9.1	7.5	0.0				0
5173 / 1 / Storage area ambient air, with filter		12:59	0.0	21.2	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		12:59	0.0	21.2	0.0	0.0				0
5173 / 1 / C / Storage area with filter		14:38	109.2	1.9	3.3	0.5				10
5173 / 1 / C / Storage area without filter		14:38	109.2	3.0	3.0	0.7				13
5173 / 1 / A / Office area ambient air with filter	2/21/2013	13:07	0.0	22.3	0.0	0.0	20s	trace		
5173 / 1 / A / Office area ambient air without filter		13:07	0.0	22.3	0.1	0.0				0
5173 / 1 / A / Office area with filter		0.9	16.0	3.4	0.0	0				
5173 / 1 / A / Office area without filter		0.9	16.0	4.0	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		13:09	0.1	22.3	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:09	0.1	22.3	0.1	0.0				0
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:12	0.1	22.2	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:12	0.1	22.3	0.1	0.0				0
5173 / 1 / C / Storage area with filter		90.5	1.8	3.0	0.7	13				
5173 / 1 / C / Storage area without filter		90.5	2.0	2.9	0.9	18				
5173 / 1 / A / Office area ambient air with filter	2/28/2013	13:03	0.0	21.1	0.1	0.0	30s - 40s	~1 inch		
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	21.1	0.1	0.0				0
5173 / 1 / A / Office area with filter		14:31	0.6	14.7	4.0	0.0				0
5173 / 1 / A / Office area without filter		14:31	0.6	14.7	4.4	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:21	0.0	21.3	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:21	0.0	21.3	0.0	0.0				0
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.2	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.2	0.0	0.0				0
5173 / 1 / C / Storage area with filter		14:36	63.0	2.3	3.2	0.6				13
5173 / 1 / C / Storage area without filter		14:36	63.0	2.4	3.1	0.8				16
5173 / 1 / A / Office area ambient air with filter	3/7/2013	14:00	0.4	21.2	0.1	0.0	30s	None		
5173 / 1 / A / Office area ambient air without filter		14:00	0.4	21.2	0.1	0.0				0
5173 / 1 / A / Office area with filter		14:13	0.0	16.4	2.4	0.0				0
5173 / 1 / A / Office area without filter		14:13	0.0	15.2	4.4	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:50	0.4	21.6	0.1	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:50	0.4	21.6	0.1	0.0				0
5173 / 1 / B / Firing Range with filter		14:17	0.0	9.1	7.1	0.0				0
5173 / 1 / B / Firing Range without filter		14:17	0.0	6.9	9.8	0.0				0
5173 / 1 / Storage area ambient air, with filter		13:40	0.3	21.5	0.3	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:40	0.3	21.5	0.1	0.0				0
5173 / 1 / C / Storage area with filter		14:21	47.0	5.1	5.0	0.4				8
5173 / 1 / C / Storage area without filter		14:21	47.0	3.1	3.1	0.8				15

**Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio**

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	3/14/2013	13:04	0.0	21.1	0.1	0.0	20s - 40s	None		
5173 / 1 / A / Office area ambient air without filter		13:04	0.0	21.2	0.1	0.0				0
5173 / 1 / A / Office area with filter		14:36	0.0	15.2	4.1	0.0				0
5173 / 1 / A / Office area without filter		14:36	0.0	15.2	4.6	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:33	0.0	21.8	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:33	0.0	21.7	0.0	0.0				0
5173 / 1 / B / Firing Range with filter		14:30	0.1	9.4	9.1	0.0				0
5173 / 1 / B / Firing Range without filter		14:30	0.1	9.6	8.8	0.0				0
5173 / 1 / Storage area ambient air, with filter		13:18	0.0	21.3	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:18	0.0	21.4	0.0	0.0				0
5173 / 1 / C / Storage area with filter		14:53	80.1	2.3	3.0	0.4				8
5173 / 1 / C / Storage area without filter		14:53	80.1	2.4	3.3	0.6				13
5173 / 1 / A / Office area ambient air with filter	3/21/2013	13:40	0.0	21.2	0.1	0.0	20s - 30s	Trace		
5173 / 1 / A / Office area ambient air without filter		13:40	0.0	21.3	0.1	0.0				0
5173 / 1 / A / Office area with filter		14:04	0.0	15.1	4.8	0.0				0
5173 / 1 / A / Office area without filter		14:04	0.0	15.1	4.4	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:15	0.0	21.7	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:15	0.0	21.8	0.0	0.0				0
5173 / 1 / B / Firing Range with filter		13:57	0.0	6.7	9.5	0.0				0
5173 / 1 / B / Firing Range without filter		13:57	0.0	6.8	9.8	0.0				0
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	21.8	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.8	0.0	0.0				0
5173 / 1 / C / Storage area with filter		14:11	85.5	4.7	3.6	0.5				11
5173 / 1 / C / Storage area without filter		14:11	85.5	2.5	3.3	0.8				17
5173 / 1 / A / Office area ambient air with filter	3/28/2013	12:41	0.0	21.3	0.0	0.0	30s - 40s	None		
5173 / 1 / A / Office area ambient air without filter		12:41	0.0	21.3	0.0	0.0				0
5173 / 1 / A / Office area with filter		13:21	0.0	15.4	5.4	0.0				0
5173 / 1 / A / Office area without filter		13:21	0.0	15.5	4.4	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		12:42	0.0	21.3	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		12:42	0.0	21.3	0.0	0.0				0
5173 / 1 / B / Firing Range with filter		13:16	0.0	7.3	9.1	0.0				0
5173 / 1 / B / Firing Range without filter		13:16	0.0	7.2	9.8	0.0				0
5173 / 1 / Storage area ambient air, with filter		12:44	0.0	21.3	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		12:44	0.0	21.3	0.0	0.0				0
5173 / 1 / C / Storage area with filter		13:27	109.0	3.1	3.4	0.6				12
5173 / 1 / C / Storage area without filter		13:27	109.0	3.3	3.2	0.8				16
5173 / 1 / A / Office area ambient air with filter	4/4/2013	13:27	0.0	21.3	0.0	0.0	30s - 50s	None		
5173 / 1 / A / Office area ambient air without filter		13:27	0.0	21.3	0.0	0.0				0
5173 / 1 / A / Office area with filter		14:31	0.4	16.1	3.3	0.0				0
5173 / 1 / A / Office area without filter		14:31	0.4	15.9	3.8	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		13:32	0.0	21.2	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		13:32	0.0	21.2	0.0	0.0				0
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:31	0.0	21.2	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:31	0.0	21.2	0.0	0.0				0
5173 / 1 / C / Storage area with filter		14:38	87.2	11.7	1.8	0.4				7
5173 / 1 / C / Storage area without filter		14:38	87.2	13.3	1.6	0.4				8
5173 / 1 / A / Office area ambient air with filter		4/9/2013	13:23	0.0	20.4	0.0				0.0
5173 / 1 / A / Office area ambient air without filter	13:23		0.0	20.5	0.0	0.0	0			
5173 / 1 / A / Office area with filter	14:19		1.1	15.5	3.8	0.0	0			
5173 / 1 / A / Office area without filter	14:19		1.1	15.6	4.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter	13:30		0.0	20.6	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter	13:30		0.0	20.6	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter	14:26		1.3	6.5	9.5	0.0	0			
5173 / 1 / B / Firing Range without filter	14:26		1.3	10.0	6.6	0.0	0			
5173 / 1 / Storage area ambient air, with filter	13:31		0.0	20.6	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter	13:31		0.0	20.6	0.0	0.0	0			
5173 / 1 / C / Storage area with filter	14:31		102.1	3.5	3.8	0.5	11			
5173 / 1 / C / Storage area without filter	14:31		102.1	3.7	3.6	0.7	14			
5173 / 1 / A / Office area ambient air with filter	4/18/2013	12:30	0.7	20.6	0.0	0.0	60s - 80s	None		
5173 / 1 / A / Office area ambient air without filter		12:30	0.7	20.6	0.0	0.0				0
5173 / 1 / A / Office area with filter		14:15	1.1	15.2	4.3	0.0				0
5173 / 1 / A / Office area without filter		14:15	1.1	15.2	4.5	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		12:37	0.0	20.4	0.0	0.0				0
5173 / 1 / B / Firing Range ambient air without filter		12:37	0.0	20.4	0.0	0.0				0
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:35	0.1	20.4	0.2	0.0				0
5173 / 1 / Storage area ambient air, without filter		12:35	0.1	20.4	0.1	0.0				0
5173 / 1 / C / Storage area with filter		14:21	134.9	1.6	5.2	0.6				13
5173 / 1 / C / Storage area without filter		14:21	134.9	1.7	5.3	0.9				18

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	4/23/2013	14:09	0.0	21.4	0.0	0.0	0	50s - 60s	None		
5173 / 1 / A / Office area ambient air without filter		14:09	0.0	21.4	0.1	0.0	0				
5173 / 1 / A / Office area with filter		14:55	0.3	16.1	3.0	0.0	0				
5173 / 1 / A / Office area without filter		14:55	0.3	15.9	4.0	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		13:52	0.0	20.6	0.1	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter		13:52	0.0	20.6	0.0	0.0	0				
5173 / 1 / B / Firing Range with filter		14:59	0.2	6.9	10.4	0.0	0				
5173 / 1 / B / Firing Range without filter		14:59	0.2	6.9	10.8	0.0	0				
5173 / 1 / Storage area ambient air, with filter		14:00	0.0	21.3	0.0	0.0	0				
5173 / 1 / Storage area ambient air, without filter		14:00	0.0	21.4	0.0	0.0	0				
5173 / 1 / C / Storage area with filter		15:04	77.6	3.5	4.1	0.5	10				
5173 / 1 / C / Storage area without filter		15:04	77.6	3.5	4.6	0.8	16				
5173 / 1 / A / Office area ambient air with filter	4/30/2013	13:39	0.0	21.3	0.0	0.0	0	40s - 70s	None		
5173 / 1 / A / Office area ambient air without filter		13:39	0.0	21.3	0.0	0.0	0				
5173 / 1 / A / Office area with filter		14:58	0.0	16.7	3.1	0.0	0				
5173 / 1 / A / Office area without filter		14:58	0.0	16.6	3.8	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		13:16	0.0	20.1	0.0	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter		13:16	0.0	20.2	0.0	0.0	0				
5173 / 1 / B / Firing Range with filter		15:02	0.5	7.1	9.6	0.0	0				
5173 / 1 / B / Firing Range without filter		15:02	0.5	6.8	10.6	0.0	0				
5173 / 1 / Storage area ambient air, with filter		13:21	0.0	20.6	0.0	0.0	0				
5173 / 1 / Storage area ambient air, without filter		13:21	0.0	21.0	0.0	0.0	0				
5173 / 1 / C / Storage area with filter		15:06	60.1	2.5	5.8	0.5	10				
5173 / 1 / C / Storage area without filter		15:06	60.1	2.6	4.9	0.8	17				
5173 / 1 / A / Office area ambient air with filter	5/9/2013	13:35	0.0	20.6	0.0	0.0	0	50s - 70s	None		
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	20.6	20.7	0.0	0				
5173 / 1 / A / Office area with filter		14:49	0.0	17.5	1.8	0.0	0				
5173 / 1 / A / Office area without filter		14:49	0.0	17.3	2.8	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		13:19	0.0	19.5	0.0	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter		13:19	0.0	19.6	0.0	0.0	0				
5173 / 1 / B / Firing Range with filter		14:51	0.4	7.0	10.3	0.0	0				
5173 / 1 / B / Firing Range without filter		14:51	0.4	7.1	10.8	0.0	0				
5173 / 1 / Storage area ambient air, with filter		13:27	0.0	20.0	0.0	0.0	0				
5173 / 1 / Storage area ambient air, without filter		13:27	0.0	20.1	0.0	0.0	0				
5173 / 1 / C / Storage area with filter		14:55	31.5	2.2	5.8	0.6	12				
5173 / 1 / C / Storage area without filter		14:55	31.5	2.3	5.5	0.9	18				
5173 / 1 / A / Office area ambient air with filter	5/16/2013	12:30	0.0	20.7	0.0	0.0	0	40s - 80s	~1 inch		
5173 / 1 / A / Office area ambient air without filter		12:30	0.0	20.7	0.1	0.0	0				
5173 / 1 / A / Office area with filter		13:48	1.0	18.1	2.7	0.0	0				
5173 / 1 / A / Office area without filter		13:48	1.0	17.9	3.1	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		12:33	0.0	20.7	0.1	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter		12:33	0.0	20.7	0.0	0.0	0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation									
5173 / 1 / Storage area ambient air, with filter		12:31	0.0	20.7	0.0	0.0	0				
5173 / 1 / Storage area ambient air, without filter		12:31	0.0	20.7	0.0	0.0	0				
5173 / 1 / C / Storage area with filter		13:59	120.3	1.8	6.5	0.8	15				
5173 / 1 / C / Storage area without filter		13:59	120.3	1.5	6.6	1.1	22				
5173 / 1 / A / Office area ambient air with filter		5/21/2013	14:06	0.0	20.5	0.0	0.0				0
5173 / 1 / A / Office area ambient air without filter	14:06		0.0	20.5	0.0	0.0	0				
5173 / 1 / A / Office area with filter	15:37		0.0	18.8	1.8	0.0	0				
5173 / 1 / A / Office area without filter	15:37		0.0	18.7	2.5	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter	13:50		0.0	19.2	0.0	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter	13:50		0.0	19.3	0.0	0.0	0				
5173 / 1 / B / Firing Range with filter	15:41		0.9	6.7	12.1	0.0	0				
5173 / 1 / B / Firing Range without filter	15:41		0.9	6.8	12.6	0.0	0				
5173 / 1 / Storage area ambient air, with filter	13:58		0.0	20.0	0.0	0.0	0				
5173 / 1 / Storage area ambient air, without filter	13:58		0.0	20.0	0.0	0.0	0				
5173 / 1 / C / Storage area with filter	15:44		79.5	3.1	7.0	0.6	13				
5173 / 1 / C / Storage area without filter	15:44		79.5	3.1	6.6	1.0	20				
5173 / 1 / A / Office area ambient air with filter	5/30/2013	12:20	0.0	20.7	0.0	0.0	0	50s - 80s	~1.3 inch		
5173 / 1 / A / Office area ambient air without filter		12:20	0.0	20.7	0.0	0.0	0				
5173 / 1 / A / Office area with filter		13:48	1.7	18.6	2.0	0.0	0				
5173 / 1 / A / Office area without filter		13:48	1.7	18.4	2.3	0.0	0				
5173 / 1 / B / Firing Range ambient air with filter		12:34	0.0	20.8	0.0	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter		12:34	0.0	20.7	0.0	0.0	0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation									
5173 / 1 / Storage area ambient air, with filter		12:36	0.0	20.7	0.0	0.0	0				
5173 / 1 / Storage area ambient air, without filter		12:36	0.0	20.7	0.0	0.0	0				
5173 / 1 / C / Storage area with filter		13:56	137.2	1.5	7.2	0.8	17				
5173 / 1 / C / Storage area without filter		13:56	137.2	1.6	7.4	1.2	25				

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	6/6/2013	13:51	0.1	20.9	0.0	0.0	60s	0.25 inch		
5173 / 1 / A / Office area ambient air without filter		13:51	0.1	20.9	0.1	0.0				
5173 / 1 / A / Office area with filter		15:28	1.8	19.2	2.0	0.0				
5173 / 1 / A / Office area without filter		15:28	1.8	19.0	2.2	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:56	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:56	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:55	0.0	20.9	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:55	0.0	20.9	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:35	126.8	4.3	6.5	0.8				16
5173 / 1 / C / Storage area without filter		15:35	126.8	4.4	6.8	1.1				23
5173 / 1 / A / Office area ambient air with filter	6/13/2013	15:25	0.0	20.8	0.0	0.0	60s - 80s	1.55 inches		
5173 / 1 / A / Office area ambient air without filter		15:25	0.0	20.8	0.0	0.0				
5173 / 1 / A / Office area with filter		--	0.0	18.6	2.5	0.0				
5173 / 1 / A / Office area without filter		--	0.0	19.9	0.4	0.0				
5173 / 1 / B / Firing Range ambient air with filter		15:00	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		15:00	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range with filter		--	0.7	6.6	12.1	0.0				
5173 / 1 / B / Firing Range without filter		--	0.7	6.6	12.7	0.0				
5173 / 1 / Storage area ambient air, with filter		15:13	0.0	20.8	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		15:13	0.0	20.8	0.0	0.0				
5173 / 1 / C / Storage area with filter		--	86.4	2.0	7.5	1.0				20
5173 / 1 / C / Storage area without filter	--	86.4	1.9	7.6	1.4	25				
5173 / 1 / A / Office area ambient air with filter	6/20/2013	--	0.0	21.0	0.0	0.0	50s - 80s	None		
5173 / 1 / A / Office area ambient air without filter		--	0.0	21.0	0.0	0.0				
5173 / 1 / A / Office area with filter		--	0.9	19.4	0.7	0.0				
5173 / 1 / A / Office area without filter		--	0.9	19.2	1.7	0.0				
5173 / 1 / B / Firing Range ambient air with filter		--	0.0	21.0	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		--	0.0	21.0	0.0	0.0				
5173 / 1 / B / Firing Range with filter		--	2.3	6.4	11.8	0.0				
5173 / 1 / B / Firing Range without filter		--	2.3	6.5	12.5	0.0				
5173 / 1 / Storage area ambient air, with filter		--	0.0	20.9	0.1	0.0				
5173 / 1 / Storage area ambient air, without filter		--	0.0	20.9	0.1	0.0				
5173 / 1 / C / Storage area with filter		--	235.1	2.5	7.6	1.0				21
5173 / 1 / C / Storage area without filter	--	235.1	2.4	7.4	1.8	37				
5173 / 1 / A / Office area ambient air with filter	6/27/2013	13:12	0.0	21.6	0.0	0.0	70s - 80s	Trace		
5173 / 1 / A / Office area ambient air without filter		13:12	21.5	0.0	0.0	0.0				
5173 / 1 / A / Office area with filter		14:23	0.2	19.8	0.7	0.0				
5173 / 1 / A / Office area without filter		14:23	0.2	19.6	1.1	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:02	0.0	21.5	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:02	0.0	21.5	0.0	0.0				
5173 / 1 / B / Firing Range with filter		14:18	0.0	8.6	11.2	0.0				
5173 / 1 / B / Firing Range without filter		14:18	0.0	8.3	11.4	0.0				
5173 / 1 / Storage area ambient air, with filter		13:25	0.0	21.7	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:25	0.0	21.7	0.0	0.0				
5173 / 1 / C / Storage area with filter		14:30	223.0	3.1	5.7	1.3				26
5173 / 1 / C / Storage area without filter	14:30	223.0	3.0	7.6	1.6	32				
5173 / 1 / A / Office area ambient air with filter	7/3/2013	12:51	0.0	20.7	0.0	0.0	60s - 80s	Trace		
5173 / 1 / A / Office area ambient air without filter		12:51	0.0	20.7	0.0	0.0				
5173 / 1 / A / Office area with filter		13:09	0.0	19.0	1.8	0.0				
5173 / 1 / A / Office area without filter		13:09	0.0	19.0	1.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:47	0.0	20.7	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		12:47	0.0	20.7	0.1	0.0				
5173 / 1 / B / Firing Range with filter		13:05	5.0	7.7	10.9	0.0				
5173 / 1 / B / Firing Range without filter		13:05	5.0	7.7	11.7	0.0				
5173 / 1 / Storage area ambient air, with filter		12:49	0	20.8	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:49	0	20.8	0.0	0.0				
5173 / 1 / C / Storage area with filter		13:25	217	3.3	6.5	1.2				25
5173 / 1 / C / Storage area without filter	13:25	217	3.0	7.4	1.6	32				
5173 / 1 / A / Office area ambient air with filter	7/11/2013	13:34	0.0	20.7	0.0	0.0	60s - 70s	None		
5173 / 1 / A / Office area ambient air without filter		13:34	0.0	20.7	0.0	0.0				
5173 / 1 / A / Office area with filter		15:20	2.4	19.3	1.7	0.0				
5173 / 1 / A / Office area without filter		15:20	2.4	19.2	1.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:30	0.0	20.8	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:30	0.0	20.8	0.0	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:32	0.0	20.8	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:32	0.0	20.8	0.1	0.0				
5173 / 1 / C / Storage area with filter		15:25	102.6	1.7	7.8	1.2				24
5173 / 1 / C / Storage area without filter		15:25	102.6	1.9	8.0	1.8				35

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	7/18/2013	12:34	0.0	20.7	0.0	0.0	70s - 90s	None		
5173 / 1 / A / Office area ambient air without filter		12:34	0.0	20.8	0.0	0.0				
5173 / 1 / A / Office area with filter		15:16	1.9	19.7	1.5	0.0				
5173 / 1 / A / Office area without filter		15:16	1.9	19.8	1.3	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:30	0.0	20.7	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		12:30	0.0	20.7	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:09	5.0	8.0	11.0	0.0				
5173 / 1 / B / Firing Range without filter		15:09	5.0	7.7	11.9	0.0				
5173 / 1 / Storage area ambient air, with filter		12:32	0	20.7	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:32	0	20.7	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:45	126.3	2.0	8.0	1.3				25
5173 / 1 / C / Storage area without filter		15:45	126.3	2.9	8.0	1.9				37
5173 / 1 / A / Office area ambient air with filter	7/25/2013	13:18	0.0	20.9	0.0	0.0	50s - 70s	None		
5173 / 1 / A / Office area ambient air without filter		13:18	0.0	20.9	0.0	0.0				
5173 / 1 / A / Office area with filter		14:46	2.4	19.6	1.6	0.0				
5173 / 1 / A / Office area without filter		14:46	2.4	19.6	1.4	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:15	0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:15	0.0	20.9	0.1	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:16	0	21.0	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:16	0	21.0	0.1	0.0				
5173 / 1 / C / Storage area with filter		14:51	113.6	2.7	7.4	1.5				29
5173 / 1 / C / Storage area without filter		14:51	113.6	2.8	7.7	1.9				38
5173 / 1 / A / Office area ambient air with filter		8/1/2013	13:34	0.0	20.8	0.1				0.0
5173 / 1 / A / Office area ambient air without filter	13:34		0.0	20.8	0.0	0.0				
5173 / 1 / A / Office area with filter	14:41		1.0	18.9	2.5	0.0				
5173 / 1 / A / Office area without filter	14:41		1.0	19.0	1.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter	13:31		0.0	20.8	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter	13:31		0.0	20.8	0.0	0.0				
5173 / 1 / B / Firing Range with filter	14:35		0.9	7.4	11.3	0.0				
5173 / 1 / B / Firing Range without filter	14:35		0.9	7.5	11.5	0.0				
5173 / 1 / Storage area ambient air, with filter	13:32		0	20.8	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter	13:32		0	20.7	0.0	0.0				
5173 / 1 / C / Storage area with filter	14:46		173.9	2.1	6.7	1.5	29			
5173 / 1 / C / Storage area without filter	14:46		173.9	2.5	7.4	2.1	41			
5173 / 1 / A / Office area ambient air with filter	8/6/2013	13:08	0.0	20.6	0.0	0.0	60s - 80s	None		
5173 / 1 / A / Office area ambient air without filter		13:08	0.0	20.6	0.0	0.0				
5173 / 1 / A / Office area with filter		14:15	1.5	18.7	2.0	0.0				
5173 / 1 / A / Office area without filter		14:15	1.5	18.6	1.6	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:04	0.0	20.6	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:04	0.0	20.7	0.0	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:06	0	20.6	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:06	0	20.6	0.0	0.0				
5173 / 1 / C / Storage area with filter		14:21	151.3	2.6	7.0	1.5				30
5173 / 1 / C / Storage area without filter		14:21	151.3	3.0	7.0	2.2				44
5173 / 1 / A / Office area ambient air with filter		8/15/2013	12:52	0.0	20.8	0.0				0.0
5173 / 1 / A / Office area ambient air without filter	12:52		0.0	20.8	0.0	0.0				
5173 / 1 / A / Office area with filter	13:51		0.3	19.3	2.2	0.0				
5173 / 1 / A / Office area without filter	13:51		0.3	19.2	1.4	0.0				
5173 / 1 / B / Firing Range ambient air with filter	12:50		0.0	20.8	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter	12:50		0.0	20.9	0.0	0.0				
5173 / 1 / B / Firing Range with filter	13:45		1.8	6.4	11.4	0.0				
5173 / 1 / B / Firing Range without filter	13:45		1.8	6.6	11.7	0.0				
5173 / 1 / Storage area ambient air, with filter	12:54		0	20.8	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter	12:54		0	20.8	0.0	0.0				
5173 / 1 / C / Storage area with filter	13:57		85.8	2.3	6.6	1.5	30			
5173 / 1 / C / Storage area without filter	13:57		85.8	2.8	6.7	2.0	40			
5173 / 1 / A / Office area ambient air with filter	8/22/2013	13:43	0.0	20.4	0.0	0.0	60s - 80s	Trace (0.06 in.)		
5173 / 1 / A / Office area ambient air without filter		13:43	0.0	20.4	0.0	0.0				
5173 / 1 / A / Office area with filter		14:53	0.0	18.9	1.4	0.0				
5173 / 1 / A / Office area without filter		14:53	0.0	18.9	1.4	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:40	0.0	20.4	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:40	0.0	20.4	0.0	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:41	0	20.3	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:41	0	20.3	0.1	0.0				
5173 / 1 / C / Storage area with filter		15:00	91.2	1.6	7.0	1.4				28
5173 / 1 / C / Storage area without filter		15:00	91.2	1.8	7.0	2.2				45

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	Time	PID (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	8/27/2013	13:28	0.0	20.5	0.0	0.0	0	70s - 80s	None	
5173 / 1 / A / Office area ambient air without filter		13:28	0.0	20.5	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:30	1.9	19.2	1.6	0.0	0			
5173 / 1 / A / Office area without filter		14:30	1.9	19.1	1.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:25	0.0	20.5	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:25	0.0	20.5	0.0	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:27	0.1	20.4	0.1	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:27	0.1	20.4	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:35	91.4	3.1	6.4	1.5	29			
5173 / 1 / C / Storage area without filter		14:35	91.4	2.0	7.0	2.6	51			
5173 / 1 / A / Office area ambient air with filter	9/5/2013	15:09	-	21.0	0.0	0.0	0	50s - 80s	None	
5173 / 1 / A / Office area ambient air without filter		15:09	-	21.1	0.0	0.0	0			
5173 / 1 / A / Office area with filter		15:32	1.0	19.2	1.1	0.0	0			
5173 / 1 / A / Office area without filter		15:32	1.0	19.1	1.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		15:00	-	20.2	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		15:00	-	20.3	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		15:40	1.5	6.4	11.2	0.0	0			
5173 / 1 / B / Firing Range without filter		15:40	1.5	6.6	11.6	0.0	0			
5173 / 1 / Storage area ambient air, with filter		15:16	-	20.7	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		15:16	0	2.8	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		15:46	85	2.3	6.9	1.6	33			
5173 / 1 / C / Storage area without filter	15:46	85	2.3	6.8	2.2	45				
5173 / 1 / A / Office area ambient air with filter	9/12/2013	14:42	0.0	21.0	0.0	0.0	0	60s-80s	0.29 inches	
5173 / 1 / A / Office area ambient air without filter		14:42	0.0	21.0	0.0	0.0	0			
5173 / 1 / A / Office area with filter		17:35	0.3	20.0	0.7	0.0	0			
5173 / 1 / A / Office area without filter		17:35	0.3	19.9	1.0	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		14:55	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		14:55	0.0	21.1	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		17:40	0.0	6.8	11.4	0.0	0			
5173 / 1 / B / Firing Range without filter		17:40	0.0	6.8	11.7	0.0	0			
5173 / 1 / Storage area ambient air, with filter		15:04	0	20.8	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		15:04	0	20.8	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		17:43	83.4	2.4	7.0	1.7	33			
5173 / 1 / C / Storage area without filter	17:43	83.4	2.4	6.9	2.3	46				
5173 / 1 / A / Office area ambient air with filter	9/20/2013	13:28	0.0	20.7	0.0	0.0	0	60s - 80s	0.6 inches	1009 - 1013
5173 / 1 / A / Office area ambient air without filter		13:28	0.0	20.7	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:20	0.4	18.7	1.0	0.0	0			
5173 / 1 / A / Office area without filter		14:20	0.4	18.6	1.2	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:36	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:36	0.0	20.9	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:24	1.2	6.5	10.6	0.0	0			
5173 / 1 / B / Firing Range without filter		14:24	1.2	6.5	10.9	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:44	0.2	20.9	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:44	0.2	20.9	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		14:29	88.9	2.0	6.3	1.4	28			
5173 / 1 / C / Storage area without filter	14:29	88.9	2.1	6.1	1.9	38				
5173 / 1 / A / Office area ambient air with filter	9/24/2013	13:43	0.0	20.8	0.0	0.0	0	40s - 70s	None	1016 - 1018
5173 / 1 / A / Office area ambient air without filter		13:43	0.0	20.9	0.0	0.0	0			
5173 / 1 / A / Office area with filter		14:44	0.3	18.1	1.4	0.0	0			
5173 / 1 / A / Office area without filter		14:44	0.3	18.0	1.5	0.0	0			
5173 / 1 / B / Firing Range ambient air with filter		13:40	0.0	20.8	0.1	0.0	0			
5173 / 1 / B / Firing Range ambient air without filter		13:40	0.0	20.8	0.0	0.0	0			
5173 / 1 / B / Firing Range with filter		14:38	1.2	6.7	10.0	0.0	0			
5173 / 1 / B / Firing Range without filter		14:38	1.2	6.7	10.6	0.0	0			
5173 / 1 / Storage area ambient air, with filter		13:41	0	20.8	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:41	0	20.8	0.1	0.0	0			
5173 / 1 / C / Storage area with filter		14:49	113.7	2.0	5.7	1.6	31			
5173 / 1 / C / Storage area without filter	14:49	113.7	2.0	5.9	2.1	41				
5173 / 1 / A / Office area ambient air with filter	10/3/2013	13:03	0.0	20.8	0.0	0.0	0	60s - 70s	0.27 inches	1015 - 1022
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	20.8	0.0	0.0	0			
5173 / 1 / A / Office area with filter		13:39	0.0	17.9	2.5	0.0	0			
5173 / 1 / A / Office area without filter		13:39	0.0	17.9	1.6	0.0	0			
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:18	0	20.9	0.0	0.0	0			
5173 / 1 / Storage area ambient air, without filter		13:18	0	21.0	0.0	0.0	0			
5173 / 1 / C / Storage area with filter		13:41	121.1	1.7	5.2	1.5	28			
5173 / 1 / C / Storage area without filter		13:41	121.1	1.8	5.9	2.0	40			

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)				
5173 / 1 / A / Office area ambient air with filter	10/10/2013	13:26	0.0	20.8	0.0	0.0	40s - 70s	None	1020 - 1022				
5173 / 1 / A / Office area ambient air without filter		13:26	0.0	20.9	0.0	0.0							
5173 / 1 / A / Office area with filter		13:56	0.6	16.2	1.5	0.0							
5173 / 1 / A / Office area without filter		13:56	0.6	16.2	1.8	0.0							
5173 / 1 / B / Firing Range ambient air with filter		13:03	0.0	20.8	0.0	0.0							
5173 / 1 / B / Firing Range ambient air without filter		13:03	0.0	20.8	0.0	0.0							
5173 / 1 / B / Firing Range with filter		14:01	1.3	6.0	9.7	0.0							
5173 / 1 / B / Firing Range without filter		14:01	1.3	5.8	10.4	0.0							
5173 / 1 / Storage area ambient air, with filter		13:13	0.05	20.6	0.0	0.0							
5173 / 1 / Storage area ambient air, without filter		13:13	0.05	20.6	0.0	0.0							
5173 / 1 / C / Storage area with filter		14:12	91.55	2.4	5.6	1.4 28							
5173 / 1 / C / Storage area without filter		14:12	91.55	1.8	5.2	1.9 39							
5173 / 1 / A / Office area ambient air with filter	10/17/2013	13:14	0.0	20.7	0.1	0.0	40s - 50s	0.1 inches	1011 - 1014				
5173 / 1 / A / Office area ambient air without filter		13:14	0.0	20.7	0.1	0.0							
5173 / 1 / A / Office area with filter		14:53	0.5	16.4	2.5	0.0							
5173 / 1 / A / Office area without filter		14:53	0.5	16.3	2.2	0.0							
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation											
5173 / 1 / Storage area ambient air, with filter		13:20	0	20.8	0.1	0.0							
5173 / 1 / Storage area ambient air, without filter		13:20	0	20.8	0.0	0.0							
5173 / 1 / C / Storage area with filter		14:58	138.6	2.4	4.9	1.4 28							
5173 / 1 / C / Storage area without filter		14:58	138.6	2.2	5.2	1.9 38							
5173 / 1 / A / Office area ambient air with filter		10/24/2013	12:26	0.0	21.0	0.1				0.0	30s - 40s	Trace (0.02 inches)	1015 - 1025
5173 / 1 / A / Office area ambient air without filter			12:26	0.0	20.9	0.0				0.0			
5173 / 1 / A / Office area with filter			13:50	3.6	16.2	1.3				0.0			
5173 / 1 / A / Office area without filter	13:50		3.6	16.0	2.6	0.0							
5173 / 1 / B / Firing Range	Inaccessible due to Firing Range operation												
5173 / 1 / Storage area ambient air, with filter	12:43		0	21.2	0.0	0.0							
5173 / 1 / Storage area ambient air, without filter	12:43		0	21.4	0.0	0.0							
5173 / 1 / C / Storage area with filter	13:54		223	4.3	2.5	1.0 20							
5173 / 1 / C / Storage area without filter	13:54		223	4.9	4.2	1.3 25							
5173 / 1 / A / Office area ambient air with filter	10/31/2013		13:36	0.0	21.1	0.1	0.0	60s	1.25 inches	1000 - 1010			
5173 / 1 / A / Office area ambient air without filter			13:36	0.0	21.1	0.1	0.0						
5173 / 1 / A / Office area with filter			15:17	1.5	16.6	3.0	0.0						
5173 / 1 / A / Office area without filter		15:17	1.5	16.8	2.0	0.0							
5173 / 1 / B / Firing Range ambient air with filter		13:13	0.0	21.1	0.0	0.0							
5173 / 1 / B / Firing Range ambient air without filter		13:13	0.0	21.0	0.0	0.0							
5173 / 1 / B / Firing Range with filter		15:21	1.9	10.3	6.6	0.0							
5173 / 1 / B / Firing Range without filter		15:21	1.9	10.3	7.0	0.0							
5173 / 1 / Storage area ambient air, with filter		13:26	0.3	21.1	0.0	0.0							
5173 / 1 / Storage area ambient air, without filter		13:26	0.3	21.0	0.0	0.0							
5173 / 1 / C / Storage area with filter		15:26	103.3	7.4	3.7	0.7 14							
5173 / 1 / C / Storage area without filter		15:26	103.3	7.4	3.2	1.0 19							
5173 / 1 / A / Office area ambient air with filter	11/7/2013	12:48	0.0	20.9	0.1	0.0	40s	Trace (0.04 inches)	1020 - 1025				
5173 / 1 / A / Office area ambient air without filter		12:48	0.0	21.0	0.1	0.0							
5173 / 1 / A / Office area with filter		14:04	1.5	15.3	3.4	0.0							
5173 / 1 / A / Office area without filter		14:04	1.5	15.2	3.4	0.0							
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation											
5173 / 1 / Storage area ambient air, with filter		12:51	0	21.0	0.0	0.0							
5173 / 1 / Storage area ambient air, without filter		12:51	0	21.0	0.0	0.0							
5173 / 1 / C / Storage area with filter		14:09	112.3	3.0	3.7	1.0 20							
5173 / 1 / C / Storage area without filter		14:09	112.3	3.0	4.2	1.3 26							
5173 / 1 / A / Office area ambient air with filter		11/12/2013	12:48	0.0	21.1	0.0				0.0	20s - 30s	Trace (0.05 inches)	1030 - 1036
5173 / 1 / A / Office area ambient air without filter			12:48	0.0	21.1	0.0				0.0			
5173 / 1 / A / Office area with filter			13:45	1.2	15.3	3.3				0.0			
5173 / 1 / A / Office area without filter	13:45		1.2	15.2	3.1	0.0							
5173 / 1 / B / Firing Range	Inaccessible due to Firing Range operation												
5173 / 1 / Storage area ambient air, with filter	12:44		0.0	21.2	0.0	0.0							
5173 / 1 / Storage area ambient air, without filter	12:44		0.0	21.3	0.0	0.0							
5173 / 1 / C / Storage area with filter	13:52		105.9	3.1	3.4	1.0 20							
5173 / 1 / C / Storage area without filter	13:52		105.9	2.9	3.9	1.3 26							

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time (ppm)	O ₂ (%)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	11/20/2013	14:31	0.0	21.2	0.0	0.0	20s - 40s	None	1023 - 1026
5173 / 1 / A / Office area ambient air without filter		14:31	0.0	21.2	0.0	0.0			
5173 / 1 / A / Office area with filter		14:45	0.0	15.5	3.0	0.0			
5173 / 1 / A / Office area without filter		14:45	0.0	15.2	3.4	0.0			
5173 / 1 / B / Firing Range ambient air with filter		14:42	0.0	21.2	0.0	0.0			
5173 / 1 / B / Firing Range ambient air without filter		14:42	0.0	21.2	0.0	0.0			
5173 / 1 / B / Firing Range with filter		14:47	0.0	6.7	8.1	0.0			
5173 / 1 / B / Firing Range without filter		14:47	0.0	6.4	9.3	0.0			
5173 / 1 / Storage area ambient air, with filter		14:35	0.0	21.1	0.1	0.0			
5173 / 1 / Storage area ambient air, without filter		14:35	0.0	21.1	0.0	0.0			
5173 / 1 / C / Storage area with filter		14:49	133.9	3.2	4.3	1.9			
5173 / 1 / C / Storage area without filter		14:49	133.9	2.8	3.7	1.3			
5173 / 1 / A / Office area ambient air with filter	11/26/2013	14:10	0.0	21.1	0.0	0.0	30s	Trace (0.01 inches)	1013 - 1019
5173 / 1 / A / Office area ambient air without filter		14:10	0.0	21.1	0.0	0.0			
5173 / 1 / A / Office area with filter		14:45	0.0	14.6	4.7	0.0			
5173 / 1 / A / Office area without filter		14:45	0.0	14.8	3.8	0.0			
5173 / 1 / B / Firing Range ambient air with filter		14:15	0.0	20.9	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter		14:15	0.0	21.0	0.1	0.0			
5173 / 1 / B / Firing Range with filter		14:51	0.0	6.5	8.8	0.0			
5173 / 1 / B / Firing Range without filter		14:51	0.0	6.6	9.1	0.0			
5173 / 1 / Storage area ambient air, with filter		13:56	0.0	21.1	0.0	0.0			
5173 / 1 / Storage area ambient air, without filter		13:56	0.0	21.2	0.0	0.0			
5173 / 1 / C / Storage area with filter		14:57	90.7	2.3	4.2	1.0			
5173 / 1 / C / Storage area without filter		14:57	90.7	2.2	3.5	1.3			
5173 / 1 / A / Office area ambient air with filter	12/5/2013	13:33	0.1	21.8	0.0	0.0	30s - 40s	0.07 inches	1013 - 1016
5173 / 1 / A / Office area ambient air without filter		13:33	0.1	21.7	0.1	0.0			
5173 / 1 / A / Office area with filter		15:07	1.2	14.8	3.6	0.0			
5173 / 1 / A / Office area without filter		15:07	1.2	14.8	4.0	0.0			
5173 / 1 / B / Firing Range ambient air with filter		14:14	0.0	21.4	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter		14:14	0.0	21.5	0.1	0.0			
5173 / 1 / B / Firing Range with filter		14:59	1.9	6.6	8.9	0.0			
5173 / 1 / B / Firing Range without filter		14:59	1.9	6.6	9.4	0.0			
5173 / 1 / Storage area ambient air, with filter		13:25	0.3	21.5	0.0	0.0			
5173 / 1 / Storage area ambient air, without filter		13:25	0.3	21.7	0.0	0.0			
5173 / 1 / C / Storage area with filter		15:11	189.7	2.8	3.5	1.9			
5173 / 1 / C / Storage area without filter		15:11	189.7	2.7	3.5	1.3			
5173 / 1 / A / Office area ambient air with filter	12/12/2013	13:59	0.0	21.0	0.1	0.0	15 - 20	None	1030 - 1036
5173 / 1 / A / Office area ambient air without filter		13:59	0.0	21.1	0.1	0.0			
5173 / 1 / A / Office area with filter		15:52	0.6	18.8	2.5	0.0			
5173 / 1 / A / Office area without filter		15:52	0.6	19.2	1.4	0.0			
5173 / 1 / B / Firing Range ambient air with filter		14:18	0.0	21.2	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter		14:18	0.0	21.3	0.0	0.0			
5173 / 1 / B / Firing Range with filter		1.6	6.8	8.3	0.0	0.0			
5173 / 1 / B / Firing Range without filter		1.6	6.5	9.3	0.0	0.0			
5173 / 1 / Storage area ambient air, with filter		14:33	0.0	21.5	0.1	0.0			
5173 / 1 / Storage area ambient air, without filter		14:33	0.0	21.5	0.0	0.0			
5173 / 1 / C / Storage area with filter		15:57	96.2	8.8	2.9	0.3			
5173 / 1 / C / Storage area without filter		15:57	96.2	8.7	2.7	0.5			
5173 / 1 / A / Office area ambient air with filter	12/19/2013	14:36	0.0	21.6	0.0	0.0	30s - 40s	None	1016 - 1018
5173 / 1 / A / Office area ambient air without filter		14:36	0.0	21.5	0.1	0.0			
5173 / 1 / A / Office area with filter		15:00	0.6	20.8	0.5	0.0			
5173 / 1 / A / Office area without filter		15:00	0.6	20.7	0.6	0.0			
5173 / 1 / B / Firing Range ambient air with filter		14:39	0.0	21.6	0.0	0.0			
5173 / 1 / B / Firing Range ambient air without filter		14:39	0.0	21.6	0.0	0.0			
5173 / 1 / B / Firing Range with filter		15:05	0.0	9.0	7.8	0.0			
5173 / 1 / B / Firing Range without filter		15:05	0.0	9.1	8.3	0.0			
5173 / 1 / Storage area ambient air, with filter		14:23	0.0	21.3	0.0	0.0			
5173 / 1 / Storage area ambient air, without filter		14:23	0.0	21.3	0.0	0.0			
5173 / 1 / C / Storage area with filter		15:08	116.3	11.8	1.3	0.1			
5173 / 1 / C / Storage area without filter		15:08	116.3	11.7	1.8	0.2			

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	12/23/2013	12:46	0.0	21.5	0.0	0.0	20s - 30s	Trace (0.02 inches)	1026 - 1029	
5173 / 1 / A / Office area ambient air without filter		12:46	0.0	21.5	0.0	0.0				
5173 / 1 / A / Office area with filter		13:04	0.0	16.4	4.0	0.0				
5173 / 1 / A / Office area without filter		13:04	0.0	16.5	2.7	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:41	0.0	21.6	0.1	0.0				
5173 / 1 / B / Firing Range ambient air without filter		12:41	0.0	21.6	0.0	0.0				
5173 / 1 / B / Firing Range with filter		13:10	0.4	11.0	7.0	0.0				
5173 / 1 / B / Firing Range without filter		13:10	0.4	10.6	8.3	0.0				
5173 / 1 / Storage area ambient air, with filter		12:43	0.0	21.6	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:43	0.0	21.6	0.0	0.0				
5173 / 1 / C / Storage area with filter		13:15	126.8	13.2	2.9	0.2				
5173 / 1 / C / Storage area without filter		13:15	126.8	13.4	1.8	0.2				
5173 / 1 / A / Office area ambient air with filter	1/2/2014	15:48	0.0	22.0	0.0	0.0	20 - 30	5.46 inches	1012 - 1026	
5173 / 1 / A / Office area ambient air without filter		15:48	0.0	22.0	0.1	0.0				
5173 / 1 / A / Office area with filter		16:25	0.8	21.2	0.2	0.0				
5173 / 1 / A / Office area without filter		16:25	0.8	21.1	0.4	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		15:42	0.0	21.5	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		15:42	0.0	21.7	0.0	0.0				
5173 / 1 / C / Storage area with filter		16:28	86.4	15.0	0.5	0.0				
5173 / 1 / C / Storage area without filter		16:28	86.4	14.7	1.4	0.1				
5173 / 1 / A / Office area ambient air with filter	1/9/2014	13:35	0.0	21.2	0.0	0.0	20s - 30s	1.55 inches	1026 - 1035	
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.3	0.1	0.0				
5173 / 1 / A / Office area with filter		14:56	3.3	20.7	1.8	0.0				
5173 / 1 / A / Office area without filter		14:56	3.3	21.0	0.2	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:31	0.0	21.2	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:31	0.0	21.2	0.0	0.0				
5173 / 1 / B / Firing Range with filter		Inaccessible due to Firing Range operation								
5173 / 1 / B / Firing Range without filter		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:33	0.0	21.1	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:33	0.0	21.2	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:00	81.4	10.2	0.8	0.1				
5173 / 1 / C / Storage area without filter		15:00	81.4	9.8	1.4	0.2				
5173 / 1 / A / Office area ambient air with filter	1/16/2014	12:34	0.0	21.1	0.0	0.0	20s - 30s	0.97 inches	1008 - 1019	
5173 / 1 / A / Office area ambient air without filter		12:34	0.0	21.0	0.0	0.0				
5173 / 1 / A / Office area with filter		13:13	2.1	21.0	0.4	0.0				
5173 / 1 / A / Office area without filter		13:13	2.1	20.9	0.1	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:36	0.0	20.9	0	0				
5173 / 1 / B / Firing Range ambient air without filter		12:36	0.0	20.9	0	0				
5173 / 1 / B / Firing Range with filter		Inaccessible due to Firing Range operation								
5173 / 1 / B / Firing Range without filter		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:37	0.0	20.9	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:37	0.0	20.9	0.1	0.0				
5173 / 1 / C / Storage area with filter		13:20	96.1	14.7	1.0	0.1				
5173 / 1 / C / Storage area without filter		13:20	96.1	14.6	1.5	0.2				
5173 / 1 / A / Office area ambient air with filter	1/23/2014	12:13	0.0	21.5	0.0	0.0	5 - 15	Trace	1019 - 1038	
5173 / 1 / A / Office area ambient air without filter		12:13	0.0	21.5	0.0	0.0				
5173 / 1 / A / Office area with filter		13:20	2.6	21.2	0.8	0.0				
5173 / 1 / A / Office area without filter		13:20	2.6	21.3	0.1	0.0				
5173 / 1 / B / Firing Range ambient air with filter		12:10	0.0	21.4	0.1	0				
5173 / 1 / B / Firing Range ambient air without filter		12:10	0.0	21.4	0	0				
5173 / 1 / B / Firing Range with filter		13:13	3.4	18.8	5.3	0.0				
5173 / 1 / B / Firing Range without filter		13:13	3.4	18.7	4.7	0.0				
5173 / 1 / Storage area ambient air, with filter		12:12	0.0	21.4	0.1	0.0				
5173 / 1 / Storage area ambient air, without filter		12:12	0.0	21.4	0.0	0.0				
5173 / 1 / C / Storage area with filter		13:27	72.8	15.8	0.5	0.1				
5173 / 1 / C / Storage area without filter		13:27	72.8	15.7	1.2	0.2				
5173 / 1 / A / Office area ambient air with filter	1/28/2014	13:35	0.0	21.8	0.1	0.0	5	None	1030 - 1033	
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.8	0.1	0.0				
5173 / 1 / A / Office area with filter		14:35	0.0	21.1	0.3	0.0				
5173 / 1 / A / Office area without filter		14:35	0.0	21.1	0.1	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:15	0.1	21.3	0	0				
5173 / 1 / B / Firing Range ambient air without filter		13:15	0.1	21.4	0	0				
5173 / 1 / B / Firing Range with filter		14:44	0.0	18.8	3.5	0.0				
5173 / 1 / B / Firing Range without filter		14:44	0.0	18.8	4.2	0.0				
5173 / 1 / Storage area ambient air, with filter		13:19	0.0	21.4	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:19	0.0	21.5	0.0	0.0				
5173 / 1 / C / Storage area with filter		14:50	60.9	15.5	0.7	0.1				
5173 / 1 / C / Storage area without filter		14:50	60.9	15.0	1.2	0.2				

**Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio**

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)
5173 / 1 / A / Office area ambient air with filter	2/6/2014	13:10	0.0	21.1	0.1	0.0	15 - 25	0.3 inches	1029 - 1032
5173 / 1 / A / Office area ambient air without filter		13:10	0.0	21.0	0.0	0.0			
5173 / 1 / A / Office area with filter		14:00	2.3	21.2	0.1	0.0			
5173 / 1 / A / Office area without filter		14:00	2.3	21.1	0.1	0.0			
5173 / 1 / B / Firing Range ambient air with filter		13:12	0.0	20.9	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter		13:12	0.0	20.9	0.0	0.0			
5173 / 1 / B / Firing Range with filter		Inaccessible due to Firing Range operation							
5173 / 1 / B / Firing Range without filter		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		13:14	0.0	21.0	0.1	0.0			
5173 / 1 / Storage area ambient air, without filter		13:14	0.0	21.1	0.1	0.0			
5173 / 1 / C / Storage area with filter	2/13/2014	14:10	105.9	16.9	1.0	0.1	25 - 35	None	1003 - 1018
5173 / 1 / C / Storage area without filter		14:10	105.9	16.8	1.2	0.1			
5173 / 1 / A / Office area ambient air with filter		13:48	0.0	21.2	0.0	0.0			
5173 / 1 / A / Office area ambient air without filter		13:48	0.0	21.3	0.1	0.0			
5173 / 1 / A / Office area with filter		15:30	1.8	20.9	2.4	0.0			
5173 / 1 / A / Office area without filter		15:30	1.8	21.2	0.0	0.0			
5173 / 1 / B / Firing Range ambient air with filter		13:40	0.0	21.1	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter		13:40	0.0	21.3	0.0	0.0			
5173 / 1 / B / Firing Range with filter		15:25	4.1	19.2	2.5	0.0			
5173 / 1 / B / Firing Range without filter		15:25	4.1	19.1	3.1	0.0			
5173 / 1 / Storage area ambient air, with filter	2/20/2014	9:43	0.0	21.0	0.0	0.0	35 - 40	None	1010 - 1014
5173 / 1 / Storage area ambient air, without filter		9:43	0.0	21.0	0.0	0.0			
5173 / 1 / C / Storage area with filter		9:55	117.4	15.9	0.8	0.1			
5173 / 1 / C / Storage area without filter		9:55	117.4	15.8	1.2	0.1			
5173 / 1 / A / Office area ambient air with filter		13:43	0.0	20.8	0.0	0.0			
5173 / 1 / A / Office area ambient air without filter		13:43	0.0	20.7	0.0	0.0			
5173 / 1 / A / Office area with filter		14:25	0.4	20.5	0.8	0.0			
5173 / 1 / A / Office area without filter		14:25	0.4	20.8	0.0	0.0			
5173 / 1 / B / Firing Range ambient air with filter		13:44	0.0	20.7	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter		13:44	0.0	20.7	0.0	0.0			
5173 / 1 / B / Firing Range	2/27/2014	Inaccessible due to Firing Range operation					15 - 25	Trace	1008 - 1024
5173 / 1 / Storage area ambient air, with filter		13:45	0.0	20.7	0.0	0.0			
5173 / 1 / Storage area ambient air, without filter		13:45	0.0	20.7	0.1	0.0			
5173 / 1 / C / Storage area with filter		14:32	63.4	16.5	1.0	0.0			
5173 / 1 / C / Storage area without filter		14:32	63.4	16.5	1.2	0.1			
5173 / 1 / A / Office area ambient air with filter		12:56	0.0	21.2	0.0	0.0			
5173 / 1 / A / Office area ambient air without filter		12:56	0.0	21.2	0.0	0.0			
5173 / 1 / A / Office area with filter		13:25	0.9	21.1	0.0	0.0			
5173 / 1 / A / Office area without filter		13:25	0.9	21.1	0.1	0.0			
5173 / 1 / B / Firing Range ambient air with filter		12:54	0.0	21.3	0.1	0.0			
5173 / 1 / B / Firing Range ambient air without filter	3/6/2014	12:54	0.0	21.3	0.0	0.0	35 - 45	None	1020 - 1029
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		12:52	0.0	21.2	0.0	0.0			
5173 / 1 / Storage area ambient air, without filter		12:52	0.0	21.3	0.1	0.0			
5173 / 1 / C / Storage area with filter		13:32	64.0	16.5	2.3	0.1			
5173 / 1 / C / Storage area without filter		13:32	64.0	16.6	1.1	0.2			
5173 / 1 / A / Office area ambient air with filter		13:40	0.0	20.9	0.0	0.0			
5173 / 1 / A / Office area ambient air without filter		13:40	0.0	20.9	0.0	0.0			
5173 / 1 / A / Office area with filter		14:40	0.2	20.7	0.3	0.0			
5173 / 1 / A / Office area without filter		14:40	0.2	20.6	0.2	0.0			
5173 / 1 / B / Firing Range	4/2/2014	Inaccessible due to Firing Range operation					50s	Trace (0.15 inches)	1020
5173 / 1 / Storage area ambient air, with filter		13:50	0.0	20.9	0.0	0.0			
5173 / 1 / Storage area ambient air, without filter		13:50	0.0	20.9	0.0	0.0			
5173 / 1 / C / Storage area with filter		15:00	57.1	16.0	1.2	0.1			
5173 / 1 / C / Storage area without filter		15:00	57.1	15.8	1.2	0.1			
5173 / 1 / A / Office area ambient air with filter		12:44	0.0	21.4	0.1	0.0			
5173 / 1 / A / Office area ambient air without filter		12:44	0.0	21.4	0.0	0.0			
5173 / 1 / A / Office area with filter		1.0	21.4	0.1	0.0	0.0			
5173 / 1 / A / Office area without filter		1.0	21.4	0.0	0.0	0.0			
5173 / 1 / B / Firing Range ambient air with filter		12:42	0.1	21.4	0.1	0.0			

**Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio**

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)	
5173 / 1 / A / Office area ambient air with filter	5/8/2014 ^[3]	15:05	0.0	20.6	0.0	0.0	75-85	None	1013-1017	
5173 / 1 / A / Office area ambient air without filter		15:05	0.0	20.6	0.0	0.0				
5173 / 1 / A / Office area with filter		15:55	0.1	20.5	0.0	0.0				
5173 / 1 / A / Office area without filter		15:55	0.1	20.5	0.0	0.0				
5173 / 1 / B / Firing Range ambient air with filter		14:50	0.0	19.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		14:50	0.0	20.0	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:49	2.0	18.1	1.9	0.0				
5173 / 1 / B / Firing Range without filter		15:49	2.0	18.1	2.1	0.0				
5173 / 1 / Storage area ambient air, with filter		14:57	0.0	20.3	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		14:57	0.0	20.3	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:58	51.1	18.2	0.8	0.0				
5173 / 1 / C / Storage area without filter		15:58	51.1	18.2	1.2	0.0				
5173 / 1 / A / Office area ambient air with filter	6/3/2014	12:17	0.0	20.8	0.0	0.0	75-85	Trace	1011-1014	
5173 / 1 / A / Office area ambient air without filter		12:17	0.0	20.8	0.0	0.0				
5173 / 1 / A / Office area with filter		12:32	0.3	21.0	0.0	0.0				
5173 / 1 / A / Office area without filter		12:32	0.3	21.1	0.0	0.0				
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		12:43	0.1	21.1	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		12:43	0.1	21.1	0.0	0.0				
5173 / 1 / C / Storage area with filter		12:50	30.9	16.9	2.3	0.0				
5173 / 1 / C / Storage area without filter	12:50	30.9	16.8	2.5	0.1	2				
5173 / 1 / A / Office area ambient air with filter	7/17/2014	13:32	0.0	20.5	0.0	0.0	70-75	None	1016-1020	
5173 / 1 / A / Office area ambient air without filter		13:32	0.0	20.6	0.0	0.0				
5173 / 1 / A / Office area with filter		15:49	0.0	20.2	0.1	0.0				
5173 / 1 / A / Office area without filter		15:49	0.0	20.3	0.0	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:20	0.2	20.6	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:20	0.2	20.7	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:53	4.0	16.2	3.1	0.0				
5173 / 1 / B / Firing Range without filter		15:53	4.0	16.2	3.3	0.0				
5173 / 1 / Storage area ambient air, with filter		13:45	0.0	20.9	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:45	0.0	20.9	0.0	0.0				
5173 / 1 / C / Storage area with filter		16:19	43.2	15.8	2.5	0.0				
5173 / 1 / C / Storage area without filter		16:19	43.2	15.7	2.7	0.0				1
5173 / 1 / A / Office area ambient air with filter	8/14/2014	13:35	0.0	20.9	0.0	0.0	70-80	None	1014-1017	
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.0	0.0	0.0				
5173 / 1 / A / Office area with filter		15:13	0.8	20.9	0.0	0.0				
5173 / 1 / A / Office area without filter		15:13	0.8	20.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air with filter		13:08	0.2	20.9	0.0	0.0				
5173 / 1 / B / Firing Range ambient air without filter		13:08	0.2	20.9	0.0	0.0				
5173 / 1 / B / Firing Range with filter		15:08	4.7	16.9	3.2	0.0				
5173 / 1 / B / Firing Range without filter		15:08	4.7	16.9	3.4	0.0				
5173 / 1 / Storage area ambient air, with filter		13:22	0.3	21.0	0.0	0.0				
5173 / 1 / Storage area ambient air, without filter		13:22	0.3	21.0	0.0	0.0				
5173 / 1 / C / Storage area with filter		15:18	51.9	16.6	2.8	0.0				
5173 / 1 / C / Storage area without filter		15:18	51.9	16.6	2.9	0.0				0
5173 / 1 / A / Office area ambient air with filter	10/9/2014	0.0	20.7	0.1	0.0	0	50s	0.3 inches	1017-1021	
5173 / 1 / A / Office area ambient air without filter		0.0	20.7	0.0	0.0	0				
5173 / 1 / A / Office area with filter		13:23	0.0	20.6	0.1	0.0				0
5173 / 1 / A / Office area without filter		13:23	0.0	20.6	0.3	0.0				0
5173 / 1 / B / Firing Range ambient air with filter		0.0	20.7	0.2	0.0	0				
5173 / 1 / B / Firing Range ambient air without filter		0.0	20.7	0.1	0.0	0				
5173 / 1 / B / Firing Range with filter		Inaccessible due to Firing Range operation								
5173 / 1 / B / Firing Range without filter		0.0	20.7	0.2	0.0	0				
5173 / 1 / Storage area ambient air, with filter		0.0	20.6	0.2	0.0	0				
5173 / 1 / Storage area ambient air, without filter		0.0	20.6	0.2	0.0	0				
5173 / 1 / C / Storage area with filter		13:29	60.4	18.3	1.5	0.0				0
5173 / 1 / C / Storage area without filter		13:29	60.4	18.1	1.7	0.0				0
5173 / 1 / A / Office area ambient air with filter	11/26/2014	13:00	0.0	21.5	0.0	0.0	30-35	None	1018-1023	
5173 / 1 / A / Office area ambient air without filter		13:00	0.0	21.5	0.0	0.0				0
5173 / 1 / A / Office area with filter		14:05	0.6	21.7	0.0	0.0				0
5173 / 1 / A / Office area without filter		14:05	0.6	21.8	0.0	0.0				0
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation								
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	21.4	0.0	0.0				0
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.4	0.0	0.0				0
5173 / 1 / C / Storage area with filter		14:10	23.2	21.1	0.2	0.0				0
5173 / 1 / C / Storage area without filter		14:10	23.2	21.1	0.4	0.0				0

**Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio**

Sample Location: Parcel / Building / Probe	Date:	PID Time	O ₂ (ppm)	CO ₂ (%)	CH ₄ (%)	LEL (%)	Ambient Temperature (°F)	Summary of Recent Precipitation	Barometric Pressure (hPa)				
5173 / 1 / A / Office area ambient air with filter	2/6/2015	14:05	0.0	21.4	0.0	0	25-35	None	1022 - 1030				
5173 / 1 / A / Office area ambient air without filter		14:05	0.0	21.4	0.0	0							
5173 / 1 / A / Office area with filter		0.0	21.2	1.8	0.0	0							
5173 / 1 / A / Office area without filter		0.0	21.1	2.1	0.0	0							
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation / Gas probe damaged per site personnel notification											
5173 / 1 / Storage area ambient air, with filter		14:19	0.1	21.7	0.0	0				0			
5173 / 1 / Storage area ambient air, without filter		14:19	0.1	21.7	0.0	0				0			
5173 / 1 / C / Storage area with filter		16:33	11.7	20.5	0.5	0.1				3			
5173 / 1 / C / Storage area without filter		16:33	11.7	20.6	0.5	0.1				3			
5173 / 1 / A / Office area ambient air with filter		5/20/2015	14:43	0.0	20.8	0.0				0	50-60	None	1016 - 1022
5173 / 1 / A / Office area ambient air without filter	14:43		0.0	20.9	0.1	0	0						
5173 / 1 / A / Office area with filter	16:35		0.4	20.9	0.4	0	0						
5173 / 1 / A / Office area without filter	16:35		0.4	21.1	0.0	0	0						
5173 / 1 / B / Firing Range ambient air with filter	13:47		0.0	21.0	0.0	0	0						
5173 / 1 / B / Firing Range ambient air without filter	13:47		0.0	21.0	0.0	0	0						
5173 / 1 / B / Firing Range with filter	16:33		4.7	18.8	1.8	0	0						
5173 / 1 / B / Firing Range without filter	16:33		4.7	18.9	1.7	0	0						
5173 / 1 / Storage area ambient air, with filter	14:02		0.0	21.0	0.0	0	0						
5173 / 1 / Storage area ambient air, without filter	14:02		0.0	21.0	0.0	0	0						
5173 / 1 / C / Storage area with filter	16:54		12.3	18.8	0.8	0	0						
5173 / 1 / C / Storage area without filter	16:54		12.3	18.7	0.9	0	0						
5173 / 1 / A / Office area ambient air with filter	8/20/2015		10:55	0.0	20.1	0.0	0	65-70	Trace	1009 - 1017			
5173 / 1 / A / Office area ambient air without filter			10:55	0.0	20.2	0.0	0						
5173 / 1 / A / Office area with filter		14:39	0.0	20.0	0.0	0	0						
5173 / 1 / A / Office area without filter		14:39	0.0	20.2	0.0	0	0						
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation											
5173 / 1 / Storage area ambient air, with filter		10:36	0.9	20.2	0.0	0	0						
5173 / 1 / Storage area ambient air, without filter		10:36	0.9	20.1	0.0	0	0						
5173 / 1 / C / Storage area with filter		14:43	4.7	17.8	1.5	0	0						
5173 / 1 / C / Storage area without filter		14:43	4.7	17.7	1.7	0	0						
5173 / 1 / A / Office area ambient air with filter		11/5/2015	14:06	0.0	21.0	0.0	0				60-70	Trace	1019 - 1021
5173 / 1 / A / Office area ambient air without filter	14:06		0.0	21.0	0.0	0	0						
5173 / 1 / A / Office area with filter	14:57		0.7	20.8	0.3	0	0						
5173 / 1 / A / Office area without filter	14:57		0.7	20.7	0.0	0	0						
5173 / 1 / B / Firing Range ambient air with filter	13:43		0.0	20.8	0.0	0	0						
5173 / 1 / B / Firing Range ambient air without filter	13:43		0.0	20.8	0.0	0	0						
5173 / 1 / B / Firing Range with filter	15:05		2.8	19.7	0.4	0	0						
5173 / 1 / B / Firing Range without filter	15:05		2.8	19.4	1.3	0	0						
5173 / 1 / Storage area ambient air, with filter	13:48		0.0	20.8	0.0	0	0						
5173 / 1 / Storage area ambient air, without filter	13:48		0.0	20.8	0.0	0	0						
5173 / 1 / C / Storage area with filter	15:10		3.7	19.3	0.4	0	0						
5173 / 1 / C / Storage area without filter	15:10		3.7	19.1	0.9	0	0						
5173 / 1 / A / Office area ambient air with filter	1/28/2016		14:04	0.0	21.7	0.1	0	35-45	Trace	1005 - 1012			
5173 / 1 / A / Office area ambient air without filter			14:04	0.0	21.7	0.1	0						
5173 / 1 / A / Office area with filter		14:31	1.0	21.7	0.2	0	0						
5173 / 1 / A / Office area without filter		14:31	1.0	21.7	0.1	0	0						
5173 / 1 / B / Firing Range ambient air with filter		13:45	0.0	21.8	0.0	0	0						
5173 / 1 / B / Firing Range ambient air without filter		13:45	0.0	21.9	0.0	0	0						
5173 / 1 / B / Firing Range with filter		14:27	2.6	21	0.3	0.2	0						
5173 / 1 / B / Firing Range without filter		14:27	2.6	20.9	0.9	0	0						
5173 / 1 / Storage area ambient air, with filter		13:52	0.0	21.7	0.0	0	0						
5173 / 1 / Storage area ambient air, without filter		13:52	0.0	21.7	0.0	0	0						
5173 / 1 / C / Storage area with filter		14:35	3.7	20.6	0.4	0	0						
5173 / 1 / C / Storage area without filter		14:35	3.7	20.5	0.5	0	0						
5173 / 1 / A / Office area ambient air with filter		1/12/2017	10:00	0.0	20.4	0.0	0				33-68	0.89 inches	1009 - 1029
5173 / 1 / A / Office area ambient air without filter			10:00	0.0	20.4	0.0	0						
5173 / 1 / A / Office area with filter	10:05		0.0	21.3	0.1	0	0						
5173 / 1 / A / Office area without filter	10:05		0.0	21.4	0.0	0	0						
5173 / 1 / B / Firing Range ambient air with filter	9:40		0.0	21.0	0.1	0	0						
5173 / 1 / B / Firing Range ambient air without filter	9:40		0.0	21.0	0.0	0	0						
5173 / 1 / B / Firing Range with filter	9:30		1.1	20.5	0.4	0	0						
5173 / 1 / B / Firing Range without filter	9:30		1.1	20.4	0.6	0	0						
5173 / 1 / Storage area ambient air, with filter	9:45		0.0	21.3	0.0	0	0						
5173 / 1 / Storage area ambient air, without filter	9:45		0.0	21.3	0.0	0	0						
5173 / 1 / C / Storage area with filter	9:50		0.1	21.3	0.0	0	0						
5173 / 1 / C / Storage area without filter	9:50		0.1	21.4	0.0	0	0						
5173 / 1 / A / Office area ambient air with filter	7/25/2018		15:06	0.2	21.3	0.0	0	75-85	None	1014-1016			
5173 / 1 / A / Office area ambient air without filter			15:06	0.2	21.3	0.0	0						
5173 / 1 / A / Office area with filter		17:15	0.2	20.9	0.0	0	0						
5173 / 1 / A / Office area without filter		17:15	0.2	21.1	0.0	0	0						
5173 / 1 / B / Firing Range ambient air with filter		14:37	0.3	21.0	0.0	0	0						
5173 / 1 / B / Firing Range ambient air without filter		14:37	0.3	21.0	0.0	0	0						
5173 / 1 / B / Firing Range with filter		17:13	2.3	20.9	0.0	0	0						
5173 / 1 / B / Firing Range without filter		17:13	2.3	20.9	0.0	0	0						
5173 / 1 / Storage area ambient air, with filter		14:44	0.2	21.1	0.0	0	0						
5173 / 1 / Storage area ambient air, without filter		14:44	0.2	21.1	0.0	0	0						
5173 / 1 / C / Storage area with filter		17:17	7.3	21.1	0.0	0	0						
5173 / 1 / C / Storage area without filter		17:17	7.3	20.9	0.0	0	0						

Vapor Intrusion Sampling Values
Parcel 5173 Building 15 - Sim Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		PID	O ₂	CO ₂	CH ₄	LEL	Ambient	Summary of Recent	Barometric
Parcel / Building / Probe	Date:	Time (ppm)	(%)	(%)	(%)	(%)	Temperature (°F)	Precipitation	Pressure (hPa)

Notes:

¹ - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

² - Combustible Gas measurements from SIM Trainer were not collected during the week of February 20th, due to range

³ - CO₂ readings started at 0.1 ppm.

R - Value was rejected (R) as the LEL reading did not correspond to the methane reading of 0 percent.

PID - Photoionization Detector

O₂ - Oxygen

CO₂ - Carbon Dioxide

CH₄ - Methane

LEL - Lower Explosive Limit

U - Qualified as non-detect due to issues with the filter

Value - Value is greater than screening levels for rapid response (USEPA, 2010).

Source of weather data for July to September 2016:

https://www.wunderground.com/history/airport/KDAY/2016/9/28/DailyHistory.html?req_city=&req_state=&req_state_name=&reqdb.zip=&reqdb.magic=&reqdb.wmo=



October 9, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
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Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
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45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: September 1 through 30, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of September 1 through 30, 2018.

The next Progress Report for the month of October 2018 will be submitted on or before November 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in September 2018 are summarized below.

- The following soil gas investigation activities were completed:
 - Analytical results were received in September for 32 GHD soil gas probe locations that were sampled for TO-15 analysis in August 2018.
 - On September 4 and 5, 2018, GHD conducted additional soil gas probe monitoring, including pressure monitoring on all soil gas probes and additional methane monitoring (filtered and unfiltered) on eight soil gas probes (GP01-18, GP02-09, GP07-18, GP19-09, GP21-09, GP25-18, GP26-18, GP28-18). The gas probe locations are shown on Figure 1 and the 2018 monitoring results are provided in the attached Tables 1, 2 and 3 (for March, August and September). With the exception of GP07-18, the September readings for methane (unfiltered) were similar to the corresponding August readings. Also, with the same exception, the September readings for filtered and unfiltered methane were similar, indicating the general absence of non-methane compounds. At GP07-18, the filtered methane reading was significantly lower than the unfiltered methane reading in September, indicating the presence of non-methane compounds at this location.
 - On September 6, 2018, GHD unsuccessfully attempted to clear the screen for soil gas probe GP08-09 using compressed air. It appears that the tubing for the soil gas probe is blocked, and will need to be repaired or replaced.
- The following groundwater investigation activities were completed, consisting of monitoring well installation and/or development, temporary monitoring well completion and sampling, and vertical aquifer sampling:
 - Monitoring well MW-233B located on Dayton Power & Light (DP&L) property was repaired on September 6, 2018 by removing the overlying asphalt pavement and installing a new flush-mount cover. The adjacent monitoring well (MW-223A) was also fitted with a new flush-mount cover at the same time.
 - Monitoring well development was conducted by GHD as follows. MW-217 located on Valley Asphalt property was re-developed on September 27, 2018. MW-234 located on Miami Conservancy District (MCD) property (Parcel 3274) was developed on September 27, 2018. MW-235 located at SIM Trainer (Parcel 5173) was developed on September 28, 2018.
 - Two temporary monitoring wells (BH16-18 and BH15-18) were completed at DP&L property on September 4 and 5, 2018, respectively, using roto sonic drilling equipment. Three groundwater samples (including field duplicates) were collected and submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved), chloride, sulfate, nitrite and nitrate.



- One temporary monitoring well (BH14-18) was completed at the central part of the Site (Parcel 5177) on September 17, 2018 using roto sonic drilling equipment. Two groundwater samples were collected and submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), metals (total and dissolved), cyanide, chloride, sulfate, nitrite and nitrate.
- Vertical Aquifer Sampling (VAS) using roto sonic drilling equipment continued in September. VAS-40 on the DP&L property was conducted from September 7 to 14, 2018. VAS-37 located in the central part of the Site (Parcel 5177) was conducted from September 18 to 24, 2018. VAS-22b located on Jim City property (Parcel 4423) was commenced on September 25, 2018.
- Fourteen samples (excluding QA/QC) from VAS-40 were submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved) including mercury, chloride, sulfate, nitrite and nitrate.
- Nine samples (excluding QA/QC) from VAS-37 were submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved) including mercury, chloride, sulfate, nitrite and nitrate. Two of nine samples were submitted to TestAmerica for additional laboratory analyses including SVOCs, pesticides, polychlorinated biphenyls (PCBs), and cyanide.
- Six samples (excluding QA/QC) from VAS-22b were submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved) including mercury, chloride, sulfate, nitrite and nitrate.
- Decontamination and purge water were placed in a frac tank, staged on Site, pending waste characterization and disposal.
- The following Quarry Pond investigation activities were completed:
 - Fifteen surface water samples (excluding QA/QC) were collected from 10 locations within the Quarry Pond from September 18 to 20, 2018. Samples were collected from 5 feet below the water surface except where the water depth was less than 7 feet deep, in which case the sample was collected at the midpoint of the water column. Deeper samples (5 feet above the base of the Quarry Pond) were also collected from 5 of 10 locations. All samples were collected using a peristaltic pump and dedicated/disposable tubing. All samples were submitted to TestAmerica for laboratory analysis of TCL VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), TCL SVOCs, TCL pesticides, PCBs, TCL herbicides, TAL metals (total and dissolved), hardness, total dissolved solids (TDS), cyanide (total), low level mercury , methyl mercury, and general chemistry parameters (chloride, fluoride, nitrate, nitrite, sulphate, and sulphide). A YSI 6920 multi-parameter sonde was used to measure field parameters at each sample location. Field parameters included pH, temperature, conductivity, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP).



- Twenty-seven sediment samples (excluding QA/QC) were collected from the 20 proposed locations within the Quarry Pond from September 20 to 26, 2018. Samples were collected from 0 to 6 inches below the base of the Quarry Pond at 19 locations. Samples were also collected from 6 to 18 inches below the base of the Quarry Pond from 8 locations. Samples were not collected at one of 20 proposed locations due to the absence of loose sediment. All samples were submitted to TestAmerica for laboratory analysis of TCL VOCs, TCL SVOCs (including PAHs), TCL pesticides and PCBs, TCL herbicides, TAL metals (including iron and manganese), mercury, cyanide (total), silver, methyl mercury, simultaneously extractable metals (SEM) for divalent metals (copper, cadmium, lead, mercury, nickel, and zinc), organic carbon, and black carbon.
- A Site meeting was conducted on September 19 and 20, 2018, attended by representatives of USEPA, Ohio EPA, Jacobs and GHD. The main topics of the meeting included RI field work activities status and proposed surficial soil/fill sampling locations. Field inspections were conducted to view the Quarry Pond investigation sampling activities; VAS sampling using roto sonic drilling rig at VAS-37 and interior of the central part of the Site; proposed soil sampling locations at Dryden Road businesses (where accessible); MW-228 area at Valley Asphalt property; and the interior of Building 12 (Overstreet Painting).
- GHD submitted a response letter dated September 5, 2018 to the Ohio EPA. The GHD letter was provided in response to the Ohio EPA letter dated July 23, 2018, which provided Ohio EPA comments on the Well Location and Decommissioning Work Plan submitted by GHD on June 22, 2018. As noted above and in previous correspondence, GHD has completed well repair activities at two well locations, including MW-217 on Valley Asphalt property and MW-223B on DP&L property. The one remaining well location (MW-228) to be addressed is located on Valley Asphalt property. This was discussed at a Site meeting attended by representatives of Valley Asphalt, Ohio EPA, USEPA, Jacobs and GHD on September 19, 2018. Implementation of the Well Location and Decommissioning Work Plan for MW-228 is pending removal of stockpiled reclaimed asphalt material by Valley Asphalt.
- GHD conducted miscellaneous preparation activities associated with continuing field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, and communication with agency personnel.

Removal Action ASAO Development

As stated in previous monthly progress reports, GHD completed annual proficiency sampling at multiple buildings in July 2018, and the concentrations of TCE at two sub-slab locations and one indoor air location at Building 12 (Overstreet Painting) were greater than the ODH screening levels. In response, GHD inspected the vacuum blowers and recorded vacuum readings in the building on September 6, 2018 and determined that the system was functioning normally. Also, GHD contacted Mr. Don Overstreet by telephone on September 8, 2018 to discuss the detection of TCE in the indoor air samples. GHD was informed by Mr. Overstreet that the building was used for equipment storage but was not routinely occupied by workers. GHD advised Mr. Overstreet to ensure the building was ventilated upon entry, and subsequently met with Mr. Overstreet at the building on September 18, 2018 to discuss testing results and



future requirements. During the meeting Mr. Overstreet stated that he was planning to remove some equipment/material stored in the building and a partition wall in the near future. The possibility of providing improved air ventilation was also discussed. Mr. Overstreet subsequently installed an exhaust fan in the building with exterior venting, in late September 2018.

GHD met with representatives of USEPA, Ohio EPA, and Jacobs at Building 12 on September 19 to inspect the interior of the building (Overstreet Painting). During the inspection it was decided to re-sample the two indoor air locations to confirm the July 2018 results. The re-sample will be conducted in October 2018.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (no response)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Potential action by USEPA related to the Century Propane property was discussed at the Site meeting on September 19, 2018. USEPA issued a written request for consent for property access to the property owner (Lynne Leigh Properties, LLC) on September 27, 2018.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples, soil gas samples and groundwater samples collected to date.
 - Coordination and discussions with property owners regarding proposed investigation activities.
 - Conduct quarterly water level readings at existing monitoring wells.
 - Collect groundwater samples from new monitoring wells and other accessible monitoring wells as required by the Work Plan, including the following:
 - MW-230, MW-233, MW-234, and MW-235 (new monitoring wells)
 - MW-209, MW-209A, MW-212 (related to Quarry Pond investigation)
 - MW-217 (at Valley Asphalt property)



- MW-223A, MW-223B, MW-224A, MW-224B (at DP&L property)
- Continue VAS investigation at VAS-22b and other remaining locations (outside of OU1)
- Prepare for soil sample collection from OU1 areas and background locations
- Continue activities related to implementation of Well Location and Decommissioning Work Plan associated with MW-228 at Valley Asphalt property.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. The planned activities include:
 - Further assessment of TCE detection at Building 12 (Overstreet Painting) including collection of two indoor air samples

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/cb/12

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Michael Hughes, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

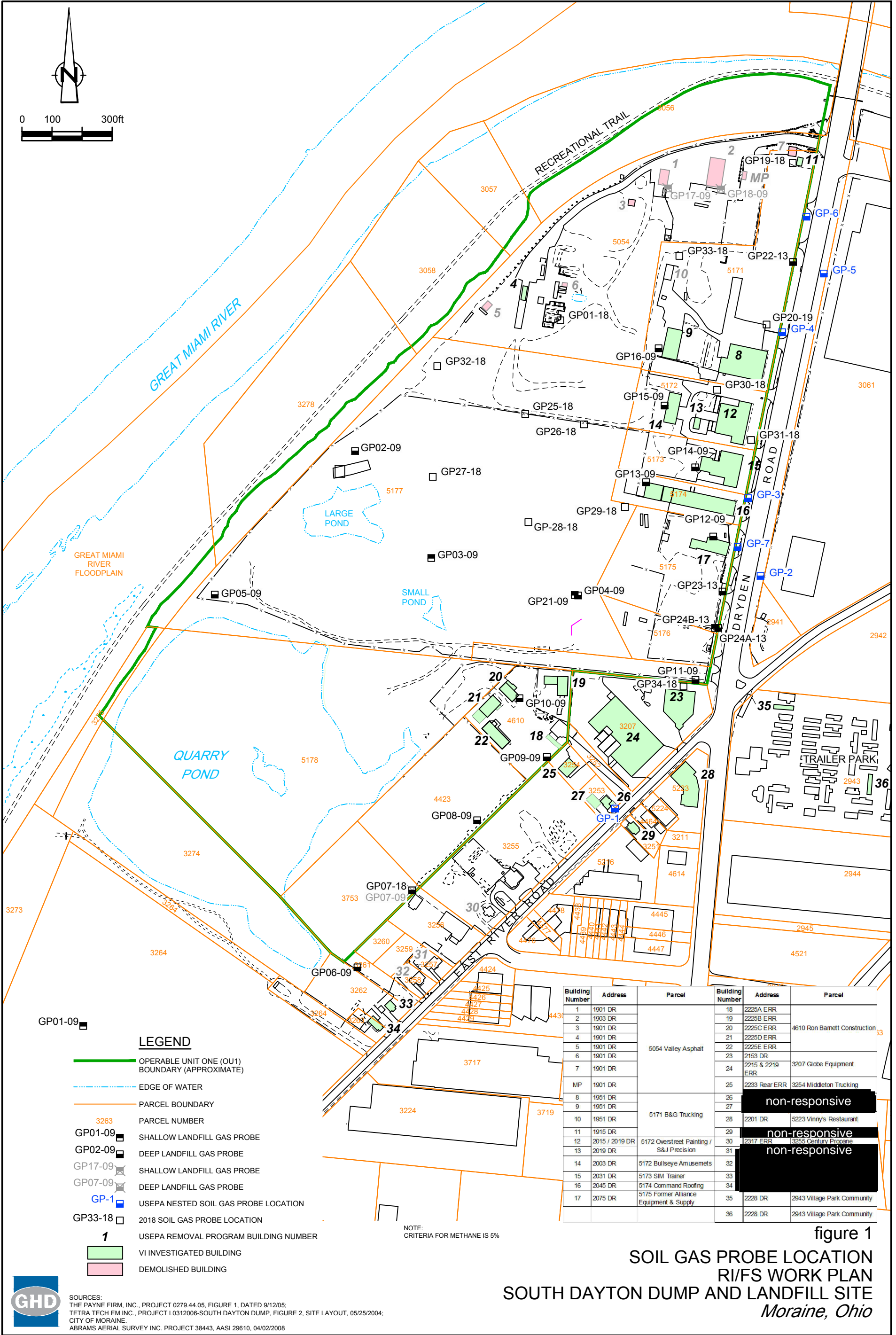


figure 1

SOIL GAS PROBE LOCATION

RI/FS WORK PLAN

SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORaine.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

Table 1

Soil Gas Probes - Field Parameters - March 2018
South Dayton Dump Landfill
Moraine, Ohio

	Field Parameters						
Location	Pressure (in WC)	CO ₂ % v/v	O ₂ % v/v	LEL % v/v	Methane % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18	-0.0211	7.3	0.0	>100	21.6	0	0.0
GP02-09	0.00368	11.4	0.0	>100	14.6	0	0.0
GP03-09	-0.00260	0.0	20.9	0	0.0	0	0.6
GP04-09	-0.00937	2.9	1.5	13	0.7	0	0.3
GP05-09	-0.00331	5.8	9.2	0	0.0	0	1.1
GP06-09	Could not be found (flushmount)						
GP07-09	Under a tire pile (flushmount)						
GP08-09	Could not be found (stick up)						
GP09-09	-0.00233	2.8	20.2	0	0.0	0	0.6
GP10-09 ²	0.00253	2.9	0.0	7	0.4	0	0.7
	0.00371	2.9	0.0	7	0.3	0	0.6
GP11-09	-0.00341	2.8	19.5	0	0.0	0	0.5
GP12-09	-0.0241	0.1	21	0	0.0	0	0.0
GP13-09	-0.0158	8.5	2.1	0	0.0	0	0.2
GP14-09	0.00243	1.2	18.3	0	0.0	0	0.5
GP15-09	-0.01462	5.3	14.6	0	0.0	0	0.9
GP16-09	-0.00976	5.4	0.0	50	2.5	0	0.4
GP17-09	Buried under asphalt						
GP18-09	Buried under asphalt						
GP19-18	-0.0494	8.5	0.3	63	3.2	0	4.8
GP20-18	-0.0272	8.3	4.1	0	0.0	0	3.0
GP21-09	-0.0572	Restricted pump flow on GEM2000+ and PID (valve open)					
GP22-13	-0.0393	9.8	0.0	0	0.0	0	0.2
GP23-13	-0.00476	5.4	14.9	0	0	0	0.1
GP24A-13	-0.00728	7.3	13.0	0	0.0	0	0.1
GP24B-13	-0.00069	3.7	17.8	0	0.0	0	0.0
GP25-18	-0.00585	5.2	0.6	58	2.9	0	0.0
GP26-18	-0.0301	7.7	0.0	51	2.5	0	3.3
GP27-18	0.00217	4.7	0.0	17	0.8	0	20.2
GP28-18	0.00323	3.8	0.0	>100	5.3	0	6.5
GP29-18	-0.0213	4.4	2.5	7	0.3	0	10.6
GP30-18	-0.00732	0.0	20.7	0	0.0	0	0.3
GP31-18	0.0152	0.5	19.7	0	0.0	0	2.0
GP32-18	0.01553	9.2	8.0	0	0.0	0	0.0
GP33-18	-0.0301	11.9	2.5	0	0.0	0	0.0
USEPA GP-1 North	-0.462	1.7	19.6	0	0.0	0	0.0
USEPA GP-1 Middle	-0.00342	0.6	20.7	0	0.0	0	0.0
USEPA GP-1 South	-0.431	No flow on GEM2000+; No flow PID					
USEPA GP-2	Excluded from Field Paramter Monitoring						
USEPA GP-3 North	-0.00769	2.2	19.1	0	0	0	0.1
USEPA GP-3 SW	0.00512	1.1	19.6	0	0	0	0
USEPA GP-3 SE	0.00225	No flow on GEM2000+; No flow PID					
USEPA GP-4 North	-0.00813	2.5	17.7	0	0.0	0	0.1
USEPA GP-4 Middle	-0.00971	2.4	18.8	0	0.0	0	0.0
USEPA GP-4 South	-0.00778	2.2	19.2	0	0.0	0	0.0
USEPA GP-5 North	-1.115	4.7	15.6	0	0.0	0	0.0
USEPA GP-5 South	-0.00637	4.4	16.2	0	0.0	0	0.0
USEPA GP-6 North	-0.00475	3.2	17.5	0	0.0	0	0.0
USEPA GP-6 Middle	-0.00168	4.0	16.4	0	0.0	0	0.0
USEPA GP-6 South	-0.00316	5.1	14.4	0	0.0	0	0.0
USEPA GP-7	Could not be found						

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

3/22/2018

Barometric Pressure

29.48" Hg

Rel Pressure

-0000.08"

CO₂ Carbon Dioxide
O₂ Oxygen
LEL Lower Explosive Limit
H₂S Hydrogen Sulfide
VOC Volatile Organic Compounds
BTOR Below Top of Riser
% v/v Percent by Volume
in WC Inches Water Column

Table 2

Soil Gas Probes - Field Parameters - August 2018
South Dayton Dump Landfill
Moraine, Ohio

Location	Field Parameters							
	Pressure (in WC)	CO ₂ % v/v	CO ppm	O ₂ % v/v	LEL % v/v	Methane (Unfiltered) % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18		16.4	0	0.0	>100	35.4	1	2.6
GP02-09		13.1	1	0.0	>100	14.8	8	0.0
GP03-09		6.4	0	11.5	0	0.0	0	0.0
GP04-09		5.5	1	0.2	5	0.2	0	0.0
GP05-09		10.2	1	7.3	0	0.0	0	0.0
GP06-09		4.7	77	13.8	3	0.1	0	36.4
GP07-18		14.3	57	0.0	>100	60.4	6	205.0
GP08-09	Insufficient gas flow. No readings.							
GP09-09		7.9	0	12.1	0	0.0	0	0.0
GP10-09		2.9	1	0.0	0	0.0	0	0.0
GP11-09		6.4	0	12.5	0	0.0	0	0.0
GP12-09		0.9	0	18.8	0	0.0	0	0.0
GP13-09		14.3	0	0.0	0	0.0	0	0.0
GP14-09		3.3	0	16.2	0	0.0	0	5.4
GP15-09		6.3	0	12.8	0	0.0	0	0.0
GP16-09		9.7	0	0.0	13	0.7	0	0.0
GP19-18		11.2	1	0.0	40	2.0	2	0.0
GP20-18		10.7	1	2.4	0	0.0	0	0.0
GP21-09		1.8	0	0.0	33	1.6	1	0.0
GP22-13		9.3	1	0.0	1	0.0	0	0.0
GP23-13		7.2	0	10.7	0	0.0	0	0.0
GP24A-13		11.8	0	5.5	0	0.0	0	0.0
GP24B-13		6.7	1	11.7	0	0.0	0	0.0
GP25-18		3.8	1	1.6	64	3.2	6	0.0
GP26-18		9.6	4	0.0	52	2.6	0	0.0
GP27-18		7.7	1	0.0	10	0.5	0	2.7
GP28-18		4.5	1	0.0	>100	7.0	2	0.0
GP29-18		5.0	1	0.0	1	0.0	0	0.0
GP30-18		0.0	0	20.0	0	0.0	0	0.0
GP31-18		0.9	0	18.9	0	0.0	0	0.0
GP32-18		17.0	0	0.2	4	0.2	0	0.1
GP33-18		13.1	0	1.0	0	0.0	0	0.0
GP34-18		10.2	0	6.3	0	0.0	0	0.0
USEPA GP-1 North		3.4	1	15.5	0	0.0	0	0.0
USEPA GP-1 Middle		2.3	1	16.9	0	0.0	0	0.0
USEPA GP-1 South	Insufficient gas flow. No readings.							
USEPA GP-2	Excluded from Field Parameters Monitoring							
USEPA GP-3 North	Probe could not be located. No readings.							
USEPA GP-3 SW								
USEPA GP-3 SE								
USEPA GP-4 North		6.7	0	2.9	0	0.0	0	3.1
USEPA GP-4 Middle		6.8	0	2.5	0	0.0	0	2.9
USEPA GP-4 South		6.1	0	2.1	0	0.0	0	2.7
USEPA GP-5 North		4.7	0	12.8	0	0.0	0	2.7
USEPA GP-5 South								
USEPA GP-6 North		7.0	0	7.6	0	0.0	0	3.1
USEPA GP-6 Middle		7.6	0	6.7	0	0.0	0	2.9
USEPA GP-6 South		8.1	0	5.7	0	0.0	0	2.7
USEPA GP-7	Probe could not be located. No readings.							

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

8/24/2018
Barometric Pressure
29.34-29.38" Hg

CO ₂	Carbon Dioxide
O ₂	Oxygen
LEL	Lower Explosive Limit
H ₂ S	Hydrogen Sulfide
VOC	Volatile Organic Compounds
BTOR	Below Top of Riser
% v/v	Percent by Volume
in WC	Inches Water Column

Table 3

Soil Gas Probes - Field Parameters - September 2018
South Dayton Dump Landfill
Moraine, Ohio

Location	Field Parameters									
	Pressure (in WC)	CO ₂ % v/v	CO ppm	O ₂ % v/v	LEL (Unfiltered) % v/v	LEL (Filtered) % v/v	Methane (Unfiltered) % v/v	Methane (Filtered) % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18	0.0212	16.40	0	0.10	>100	>100	34.60	34.7	0	
GP02-09	0.01557	13.50	0	0.10	>100	>100	14.60	14.6	0	
GP03-09	0.00377									
GP04-09	0.0245									
GP05-09	0.00054 to -0.00231									
GP06-09	-0.00247									
GP07-18	-0.00289	14.70	36	0.00	>100/>100	6	39.4/39.3	0.30	0	
GP08-09	0.00011 to -0.00173									
GP09-09	0.00112									
GP10-09	-0.00073									
GP11-09	-0.00690									
GP12-09	-0.00594									
GP13-09	-0.00843									
GP14-09	-0.00326									
GP15-09	-0.00776									
GP16-09	-0.0240	11.30	0	0.00	28	28	1.40	1.40	0	
GP19-18	0.00805									
GP20-18	0.0143									
GP21-09	-0.00252	2.10	0	0.10	37	37	1.80	1.80	0	
GP22-13	0.00241									
GP23-13	-0.00285									
GP24A-13	-0.00408									
GP24B-13	-0.00619									
GP25-18	-0.00025 to 0.00029	3.70	0	1.60	64	61	3.20	3.00	0	
GP26-18	0.0207	10.10	0	0.00	41	40	2.00	2.00	0	
GP27-18	0.00130									
GP28-18	0.00625	4.80	0	0.10	97	96	4.70	4.60	0	
GP29-18	0.01073									
GP30-18	-0.00037									
GP31-18	-0.00707									
GP32-18	0.209									
GP33-18	-0.0146									
GP34-18	0.00442									
USEPA GP-1 North	0.00013 to -0.00133									
USEPA GP-1 Middle	-0.00356									
USEPA GP-1 South	-0.0212									
USEPA GP-2	Excluded from Field Parameter Monitoring									
USEPA GP-3 North	-0.1407	5.20	0	11.30	0	n/a	0.00	n/a	0	
USEPA GP-3 SW	-0.00131	3.80	0	14.70	0	n/a	0.00	n/a	0	
USEPA GP-3 SE	0.00348 to -0.00257	Insufficient flow to collect readings								
USEPA GP-4 North	0.00245 to -0.00017									
USEPA GP-4 Middle	-0.422									
USEPA GP-4 South	-0.00352									
USEPA GP-5 North	0.00912									
USEPA GP-5 South										
USEPA GP-6 North	-0.00225									
USEPA GP-6 Middle	0.00046 to -0.00177									
USEPA GP-6 South	-0.00317									
USEPA GP-7 West	-0.00148	8.00	0	9.60	0	n/a	0.00	n/a	0	
USEPA GP-7 Middle	0.00022	8.20	0	9.90	0	n/a	0.00	n/a	0	
USEPA GP-7 East	-0.00078 to 0.00125	6.20	0	12.20	0	n/a	0.00	n/a	0	

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

9/4/18-9/5/18
 Barometric Pressure
 29.38-29.42" Hg

CO₂ Carbon Dioxide
 O₂ Oxygen
 LEL Lower Explosive Limit
 H₂S Hydrogen Sulfide
 VOC Volatile Organic Compounds
 BTOR Below Top of Riser
 % v/v Percent by Volume
 in WC Inches Water Column



November 9, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: October 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of October 1 through 31, 2018.

The next Progress Report for the month of November 2018 will be submitted on or before December 10, 2018.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in October 2018 are summarized below.

- The following general activities were completed:
 - Surveying to determine location coordinates and elevations was completed at twelve locations including two monitoring wells (MW-234 and MW-235), two soil gas probes (GP07-18 and GP34-18), four vertical aquifer sample (VAS) locations (VAS-22b, VAS-36, VAS-37, and VAS-40), and four staff gauges, one located in each of the Large and Small Ponds and two location in the Quarry Pond.
- The following groundwater investigation activities were completed, consisting of quarterly groundwater elevation monitoring, monitoring well sampling and/or development, and vertical aquifer sampling:
 - Water level monitoring was completed at 52 existing monitoring well locations that were accessible. Surface water elevations were also measured in the three ponds (small pond, large pond, and the Quarry Pond). Monitoring locations are shown on Figure 1 and groundwater elevations are provided in Table 1.
 - Monitoring well development was conducted as follows. MW-223B located on Dayton Power & Light property was re-developed on October 15, 2018.
 - Groundwater samples were collected at 12 monitoring wells including the following:
 - MW-230, MW-233, MW-234, and MW-235 (new monitoring wells)
 - MW-209, MW-209A, MW-212 (related to Quarry Pond investigation)
 - MW-217 (at Valley Asphalt property)
 - MW-223A, MW-223B, MW-224A, MW-224B (at DP&L property)
 - Thirteen groundwater samples (including one field duplicate) were collected from the 12 monitoring wells and submitted to TestAmerica for laboratory analysis of volatile organic compounds (VOCs), (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (total and dissolved) and cyanide, and major anions (chloride, sulfate, nitrite, nitrate).
 - Vertical aquifer sampling (VAS) using roto sonic equipment was completed at VAS-22b (located at Jim City property) and VAS-36 (located at Globe equipment property). The roto sonic drilling rig and crew was demobilized from the Site on October 12, 2018.
 - Three samples (excluding QA/QC) from VAS-22b were submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved) including mercury, chloride, sulfate, nitrite and nitrate.



- Sixteen samples (excluding QA/QC) from VAS-36 were submitted to TestAmerica for laboratory analyses of VOCs, (including 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane), metals (total and dissolved) including mercury, chloride, sulfate, nitrite and nitrate
- Decontamination and purge water were placed in a frac tank, staged on Site, pending waste characterization and disposal. A sample of the tank contents was collected and submitted for laboratory analysis on October 25, 2018.
- The following soil/fill investigation activities were completed:
 - Surficial soil samples were collected using hand auger from 0-2 ft BGS at 5 locations in the central part of the Site on October 26, 2018. The samples from each location were submitted to TestAmerica for laboratory analysis of various parameters including: VOCs, SVOCs, PCBs, pesticides, metals including total chromium, mercury, and cyanide, black carbon, organic carbon, and dioxins/furans; and chromium speciation (if required based on total chromium results). Five samples were submitted for laboratory analysis of fractionated lead (subject to review of total lead results). One sample (0-2 ft BGS) was submitted for laboratory analysis of herbicides. Two samples (0-0.5 ft BGS) were collected for asbestos analysis by PLM with milling, visual inspection.
 - Surficial soil samples were collected using direct push technology from 0-2 ft BGS at 50 shallow borehole locations completed between October 29, 2018 and October 31, 2018. The samples were submitted to TestAmerica for laboratory analysis of various parameters including: VOCs, SVOCs, PCBs, pesticides, metals including total chromium, mercury, and cyanide; and chromium speciation (if required based on total chromium results). Fifty-five samples were submitted for laboratory analysis of fractionated lead (subject to review of total lead results). Seven samples (0-2 ft BGS) were submitted for laboratory analysis of herbicides. Thirteen samples (0-0.5 ft BGS) were collected for asbestos analysis by PLM with milling, visual inspection.
- The following soil gas investigation activities were completed:
 - Data validation was conducted for the analytical results of soil gas samples collected in August 2018.
- On October 19, 2018, GHD notified USEPA and Ohio EPA that Valley Asphalt had begun removal of the reclaimed asphalt material inhibiting access to MW-228. Implementation of the Well Location and Decommissioning Work Plan for MW-228 is pending removal of stockpiled reclaimed asphalt material by Valley Asphalt.
- GHD conducted a review of the QAPP as requested by USEPA in September 2018, and provided proposed revisions on October 28, 2018.
- GHD conducted miscellaneous preparation activities associated with continuing field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, and communication with agency personnel.



Removal Action ASAOOC Developments

GHD completed re-sampling at two indoor air locations at Building 12 (Overstreet Painting) on October 4, 2018. GHD received analytical results and conducted laboratory data validation in October 2018. The October 2018 analytical results for Building 12 (Overstreet Painting) are provided in Table 2 with previous results for samples collected in July 2018. The table lists parameters with ODH non-residential screening levels.

As shown in Table 2, the October indoor air results show that the TCE concentrations are below the ODH non-residential screening level (2 ppbv) for both indoor air samples, hence the July result is not confirmed. Also, the July result for TCE (13 ppbv at IA-12-OP-B) is inconsistent with all other indoor air sample results. Benzene continues to be present in indoor air at concentrations above the screening level, unrelated to VI. GHD concludes that no action is required at this time other than continued operation and monitoring of the VI system.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (discussions in progress)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Regarding the Century Propane property, USEPA issued a written request for consent for property access to the property owner (Lynne Leigh Properties, LLC) on September 27, 2018. GHD understands that USEPA has received a response from the property owner's legal representative indicating agreement to allow access. GHD was contacted by the property owner's representative requesting information on the proposed sampling activities, which was provided by GHD on October 31, 2018.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples, Quarry Pond surface water and sediment samples, soil gas samples and groundwater samples collected to date.
 - Coordination and discussions with property owners regarding proposed investigation activities.
 - Conduct field parameter monitoring at existing soil gas probe locations.



- Continue soil/fill investigation from OU1 areas and prepare for soil sample collection from background locations.
- Continue activities related to implementation of Well Location and Decommissioning Work Plan associated with MW-228 at Valley Asphalt property.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/cb/13

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Michael Hughes, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

Table 1

**October 2018 Quarterly Groundwater Levels
South Dayton Dump Landfill
Moraine, Ohio**

Location	Coordinates ¹		Reference		October 2018	
	Easting	Northing	Top or Riser ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Notes
GW-1	1485691.87	633281.09	n/a	n/a	n/a	DP&L
GW-2	1485705.16	633197.13	n/a	n/a	n/a	DP&L
GW-3	1485870.44	633265.99	n/a	n/a	n/a	DP&L
GW-4			n/a	n/a	n/a	DP&L
GW-5	1485681.66	633137.26	735.55	24.77	710.78	DP&L
GW-6	1485626.42	633192.35	734.42	24.16	710.26	DP&L
GW-7	1485607.50	633109.42	735.07	25.3	709.77	DP&L
GW-8	1485654.66	633152.28	734.92	25.25	709.67	DP&L
MW-101A	1484347.13	633062.05	725.00	15.61	709.39	
MW-102	1483652.72	633238.74	717.63	8.31	709.32	
MW-103	1483816.63	633420.79	716.50	7.15	709.35	
MW-104	1485593.26	633186.27	728.30	18.57	709.73	DP&L
MW-201	1483992.29	633672.43	715.25	6.13	709.12	
MW-202	1485528.31	633458.42	733.08	23.49	709.59	
MW-203	1485006.23	633009.04	730.11	20.56	709.55	
MW-204	1484621.37	633046.28	722.69	13.16	709.53	
MW-206	1484303.39	634007.63	716.08	6.43	709.65	Cap on protective casing repaired October 2018
MW-207	1484633.10	634363.27	716.33	6.64	709.69	
MW-208	1485584.91	633845.40	733.87	24.12	709.75	
MW-209	1484343.34	632718.83	714.26	5.16	709.10	
MW-209A	1484337.98	632746.34	714.64	5.56	709.08	
MW-210	1485396.75	632951.11	732.50	22.86	709.64	
MW-210A	1485399.45	632964.36	733.54	24.32	709.22	
MW-210B	1485390.92	632965.07	733.65	24.39	709.26	
MW-212	1484537.84	632746.38	728.83	19.67	709.16	
MW-214	1484342.04	631920.50	723.96	14.70	709.26	
MW-215A	1485186.15	633686.53	734.63			
MW-215B	1485183.69	633679.69	734.69	25.47	709.22	
MW-216	1485650.98	634007.80	732.08	22.86	709.22	
MW-217	1484742.27	634203.23	736.65	27.00	709.65	Repaired May 2018
MW-218A	1483339.09	632429.81	722.70	13.57	709.13	
MW-218B	1483331.81	632433.77	722.97	14.09	708.88	
MW-219	1485662.99	634632.62	735.34	25.57	709.77	
MW-220	1485694.49	633290.82	735.40	25.57	709.83	
MW-221	1485827.65	633957.63	735.84	26.78	709.06	
MW-222	1486000.22	634555.40	736.26	27.41	708.85	
MW-222A	1486010.55	634603.03	735.42	25.71	709.71	
MW-223A	1486254.37	634144.16	735.38	25.56	709.82	
MW-223B	1486261.00	634140.45	735.04	25.96	709.08	Repaired September 2018
MW-224A	1486547.57	634513.42	735.60	25.94	709.66	
MW-224B	1486538.41	634515.45	735.48	26.58	708.90	
MW-225	1485672.90	634142.60	731.14	21.31	709.83	
MW-226	1485803.06	634938.64	721.09	11.6	709.49	
MW-227	1485248.78	634042.62	739.10	29.31	709.79	
MW-228	1485475.11	634388.19	738.57	n/a	n/a	Under asphalt/debris pile
MW-229	1485306.20	634681.80	736.68	27.32	709.36	
MW-230	1485592.00	634745.30	737.22	27.57	709.653	
MW-233	1483784.00	633208.70	730.08	20.8	709.279	
MW-234	1483714.22	632168.22	724.066	14.65	709.416	
MW-235	1485182.31	633669.45	734.245	24.39	709.855	
P-211	1484355.17	632855.28	715.72	5.38	710.34	
MW-1	1485842.09	633258.84	735.13	25.26	709.87	DP&L
MW-2	1485670.65	633228.08	735.15	25.16	709.99	DP&L
MW-3	1485707.04	633409.40	736.03	25.37	710.66	DP&L
MW-4	1485692.08	633281.02	735.37	25.57	709.8	DP&L
MW-5	n/a	n/a	n/a	25.67	n/a	DP&L
MW-A	1485673.56	633284.93	735.12	25.21	709.91	DP&L
MW-B	1485677.26	633252.64	735.43	25.65	709.78	DP&L

Notes:

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

ft BREF - feet below reference

ft AMSL - feet above mean sea level

* Reference point is Top Of Riser at each monitoring well

* Reference point is Top of Staff Gauge at the Large, Small and Quarry Pond

Table 2

**Summary of Building 12 - Overstreet Painting
2018 Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio**

Sample Location:		IA-12-OP-A		IA-12-OP-A		IA-12-OP-B		IA-12-OP-B		IA-12-OP-Office	
Sample ID:		IA-38443-071318-JC-025		IA-38443-100418-AS-002		IA-38443-071318-JC-022		IA-38443-100418-AS-001		IA-38443-071318-JC-023	
Sample Date:		7/13/2018		10/4/2018		7/13/2018		10/4/2018		7/13/2018	
Parameters	Units	ODH Non-Residential Screening Levels									
		Sub-Slab Soil Gas	Indoor Air								
		a	b								
Volatile Organic Compounds											
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.47 U	0.026 U	0.026 U			
Benzene	ppbv	20	2	0.056 U	4.3 ^b	7.4 ^b	5.1 ^b	5.4 ^b			
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.10 J	0.69 U	0.14 J	0.15 J			
cis-1,2-Dichloroethene	ppbv	370	37	3.9	0.060 U	1.1 U	0.060 U	0.060 U			
Ethylbenzene	ppbv	2500	250	0.068 U	7.5	13	7.4	13			
m&p-Xylenes	ppbv	2000	200	0.12 U	32	55	31	56			
Naphthalene	ppbv	29	2.9	0.090 U	1.2	1.6 U	1.3	1.1			
o-Xylene	ppbv	2000	200	0.061 U	11	20	11	21			
Tetrachloroethene	ppbv	250	25	4.6	11	1.2 J	10	0.28			
Trichloroethene	ppbv	20	2	0.43	0.39	13 ^b	0.35	0.30			
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	1.3 U	0.071 U	0.071 U			

Notes:

- J Estimated concentration
 JN Tentatively identified compound, estimated concentration
 NJ Tentatively identified compound, estimated concentration
 R Rejected
 U Not detected at the associated reporting limit
 UJ Not detected; associated reporting limit is estimated
 1.0 Value greater than ODH Non-Residential Screening Level

Table 2

**Summary of Building 12 - Overstreet Painting
2018 Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio**

Sample Location:		OA-12-OP-2015		SS-12-OP-A		SS-12-OP-B		SS-12-OP-B	
Sample ID:		OA-38443-071318-JC-019		SS-38443-071318-JC-024		SS-38443-071318-JC-020		SS-38443-071318-JC-021	
Sample Date:		7/13/2018		7/13/2018		7/13/2018		7/13/2018	
Parameters	Units	ODH Non-Residential Screening Levels							Duplicate
		Sub-Slab Soil Gas	Indoor Air						
		a	b						
Volatile Organic Compounds									
1,1-Dichloroethane	ppbv	160	16	0.026 U	3.0 U	2.0 U	0.47 U		
Benzene	ppbv	20	2	0.25	6.4 U	4.4 U	1.0 U		
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	22 J	24	19		
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	350	120	95		
Ethylbenzene	ppbv	2500	250	0.15 J	7.7 U	5.3 U	1.2 U		
m&p-Xylenes	ppbv	2000	200	0.54	14 U	9.4 U	2.2 U		
Naphthalene	ppbv	29	2.9	0.090 U	10 U	7.1 U	1.6 U		
o-Xylene	ppbv	2000	200	0.21	6.9 U	4.8 U	1.1 U		
Tetrachloroethene	ppbv	250	25	0.059 J	4.6 U	79	72		
Trichloroethene	ppbv	20	2	0.036 U	1200 ^a	2400 ^a	2200 ^a		
Vinyl chloride	ppbv	20	2	0.071 U	8.1 U	5.6 U	1.3 U		

Notes:

- J Estimated concentration
 JN Tentatively identified compound, estimated concentration
 NJ Tentatively identified compound, estimated concentration
 R Rejected
 U Not detected at the associated reporting limit
 UJ Not detected; associated reporting limit is estimated
 1.0 Value greater than ODH Non-Residential Screening Level



December 10, 2018

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: November 1 through 30, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of November 1 through 30, 2018.

The next Progress Report for the month of December 2018 will be submitted on or before January 10, 2019.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in November 2018 are summarized below.

- The following general activities were completed:
 - GHD conducted miscellaneous preparation activities associated with continuing field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, preparation of site access agreements and communication with agency personnel.
 - GHD submitted temporary land use permit applications to the Miami Conservancy District (MCD) related to proposed floodplain background soil sampling, and proposed soil and groundwater sampling in the floodplain area adjacent to OU1.
 - GHD conducted discussions with property owners to request permission for background soil sampling at three areas including Ora Everett Park (City of Moraine), Madden Golf Course (City of Dayton), and Carillon Park. GHD has obtained permission to collect soil samples in one area (Ora Everett Park).
- The following soil/fill investigation activities were completed:
 - Surficial soil samples were collected using hand auger from 0-2 feet below ground surface (BGS) at 18 locations in the central and southern part of the Site between November 2 and November 28, 2018. The samples from each location were submitted to TestAmerica for laboratory analysis of various parameters including: VOCs, SVOCs, PCBs, pesticides, metals including total chromium, mercury, and cyanide; and chromium speciation (if required based on total chromium results). Nineteen samples (including one field duplicate) were submitted for laboratory analysis of fractionated lead (subject to review of total lead results). Twelve samples (0-2 feet BGS) (including 1 field duplicate) were submitted for laboratory analysis of herbicides. Twenty-two samples (0-0.5 feet BGS) were collected for asbestos analysis by polarized light microscopy (PLM) with milling, visual inspection.
- The following soil gas investigation activities were completed:
 - On November 14 and 15, 2018, GHD conducted field parameter monitoring for organic vapors, carbon dioxide, oxygen, methane, hydrogen sulfide, and explosive gases/lower explosive limit at 30 of 33 GHD soil gas probe locations and 5 of 7 USEPA soil gas probe locations. Methane readings above the lower explosive limit (LEL) were recorded at the following locations: GP01-18, GP02-09, GP07-18, and GP28-18. At GP07-18, filtered methane readings were significantly lower than the unfiltered methane readings, indicating the presence of non-methane compounds. Existing soil gas probe locations are shown on Figure 1 and the results of the 2018 field parameter monitoring rounds are provided in the attached Tables 1, 2a, 2b, and 3 (for March, August, September, and November).



- Valley Asphalt continued with removal of the reclaimed asphalt material inhibiting access to MW-228 in November 2018. Implementation of the Well Location and Decommissioning Work Plan for MW-228 is pending removal of stockpiled reclaimed asphalt material by Valley Asphalt.

Removal Action ASAOOC Developments

GHD provided the results of the re-sampling at two indoor air locations at Building 12 (Overstreet Painting) conducted on October 4, 2018, via e-mail to USEPA on November 2, 2018 (and in the October progress report dated November 9, 2018). Based on the re-sampling results, GHD concluded that no action is required at this time other than continued operation and monitoring of the VI system. USEPA responded via e-mail on November 8, 2018 by indicating agreement with GHD's conclusion if the building was unoccupied, and if the building is occupied then additional sampling would be required in winter conditions. GHD confirmed that the use of the building by Overstreet Painting is unchanged, i.e., it is used for equipment storage and is accessed occasionally for that purpose.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Century Propane, Parcel 3255 (discussions in progress)
- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

Regarding the Century Propane property, USEPA issued a written request for consent for property access to the property owner (Lynne Leigh Properties, LLC) on September 27, 2018. GHD understands that USEPA has received a response from the property owner's legal representative indicating agreement to allow access. GHD was contacted by the property owner's representative requesting information on the proposed sampling activities, which was provided by GHD on October 31, 2018. GHD provided a draft access agreement to the property owner's representative on November 13, 2018. GHD provided a revised draft access agreement on November 20, 2018 based on comments provided by the property owner's representative.



Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples, Quarry Pond surface water and sediment samples, and groundwater samples collected to date.
 - Coordination and discussions with property owners regarding proposed investigation activities.
 - Conduct quarterly water level readings at existing monitoring wells.
 - Preparation work for groundwater sampling within MCD property at proposed VAS-39.
 - Continue soil/fill investigation for OU1 areas including collection of soil samples from 12 remaining locations (within EU2 and EU17).
 - Conduct background floodplain soil sampling (adjacent to Carillon Park) and background soil sampling at one area (Ora Everett Park).
- Continue activities related to implementation of Well Location and Decommissioning Work Plan associated with MW-228 at Valley Asphalt property.
- Coordinate disposal of waste water from the on-Site Frac tank.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. GHD will conduct quarterly sub-slab depressurization system (SSDS) inspections on all building with an operating system.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/cb/14

Encl.

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Michael Hughes, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

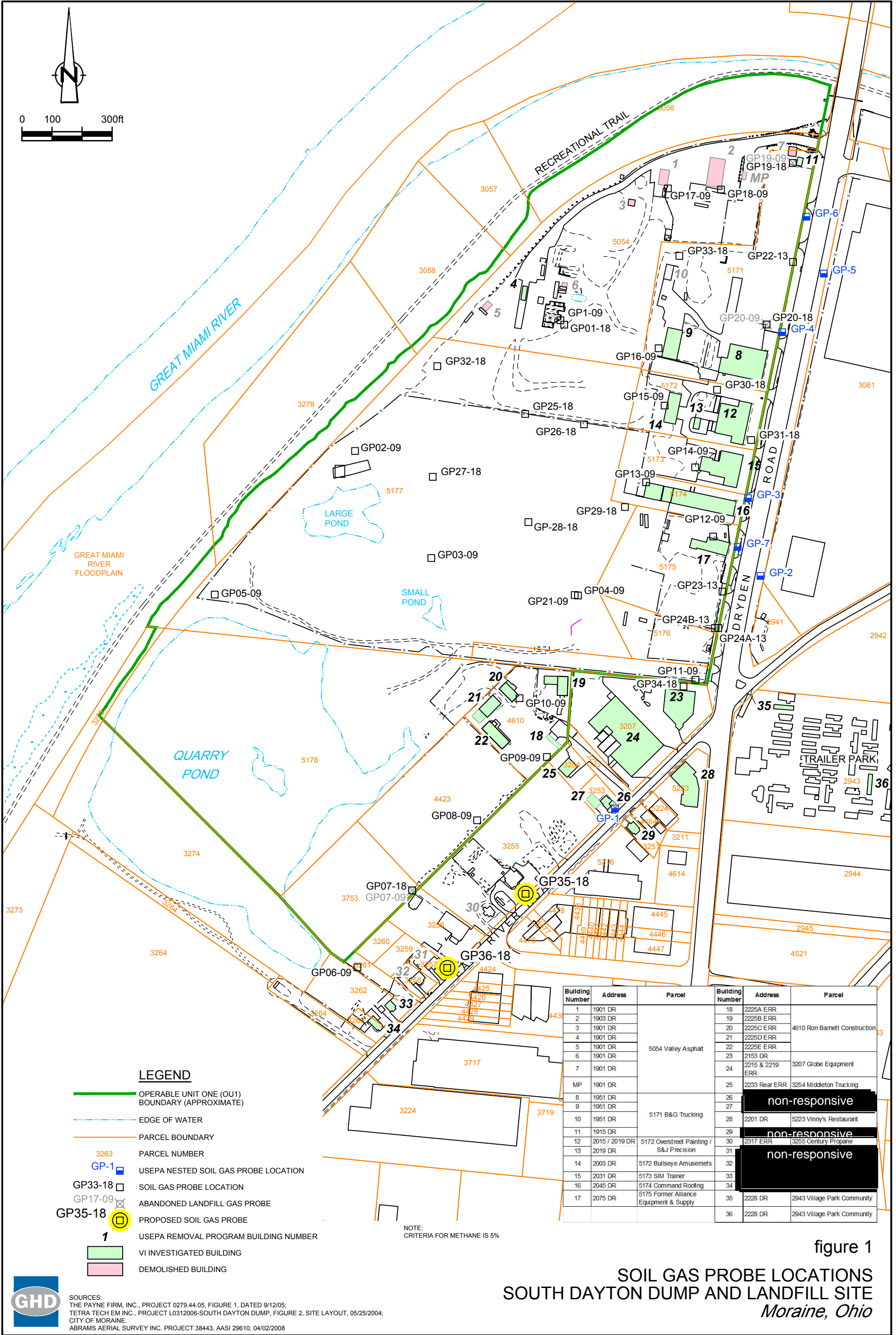


figure 1

SOIL GAS PROBE LOCATIONS

SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio



SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORaine
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

Table 1

Soil Gas Probes - Field Parameters - March 2018
South Dayton Dump Landfill
Moraine, Ohio

	Field Parameters						
Location	Pressure (in WC)	CO ₂ % v/v	O ₂ % v/v	LEL % v/v	Methane % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18	-0.0211	7.3	0.0	>100	21.6	0	0.0
GP02-09	0.00368	11.4	0.0	>100	14.6	0	0.0
GP03-09	-0.00260	0.0	20.9	0	0.0	0	0.6
GP04-09	-0.00937	2.9	1.5	13	0.7	0	0.3
GP05-09	-0.00331	5.8	9.2	0	0.0	0	1.1
GP06-09	Could not be found (flushmount)						
GP07-09	Under a tire pile (flushmount)						
GP08-09	Could not be found (stick up)						
GP09-09	-0.00233	2.8	20.2	0	0.0	0	0.6
GP10-09 ²	0.00253	2.9	0.0	7	0.4	0	0.7
	0.00371	2.9	0.0	7	0.3	0	0.6
GP11-09	-0.00341	2.8	19.5	0	0.0	0	0.5
GP12-09	-0.0241	0.1	21	0	0.0	0	0.0
GP13-09	-0.0158	8.5	2.1	0	0.0	0	0.2
GP14-09	0.00243	1.2	18.3	0	0.0	0	0.5
GP15-09	-0.01462	5.3	14.6	0	0.0	0	0.9
GP16-09	-0.00976	5.4	0.0	50	2.5	0	0.4
GP17-09	Buried under asphalt						
GP18-09	Buried under asphalt						
GP19-18	-0.0494	8.5	0.3	63	3.2	0	4.8
GP20-18	-0.0272	8.3	4.1	0	0.0	0	3.0
GP21-09	-0.0572	Restricted pump flow on GEM2000+ and PID (valve open)					
GP22-13	-0.0393	9.8	0.0	0	0.0	0	0.2
GP23-13	-0.00476	5.4	14.9	0	0	0	0.1
GP24A-13	-0.00728	7.3	13.0	0	0.0	0	0.1
GP24B-13	-0.00069	3.7	17.8	0	0.0	0	0.0
GP25-18	-0.00585	5.2	0.6	58	2.9	0	0.0
GP26-18	-0.0301	7.7	0.0	51	2.5	0	3.3
GP27-18	0.00217	4.7	0.0	17	0.8	0	20.2
GP28-18	0.00323	3.8	0.0	>100	5.3	0	6.5
GP29-18	-0.0213	4.4	2.5	7	0.3	0	10.6
GP30-18	-0.00732	0.0	20.7	0	0.0	0	0.3
GP31-18	0.0152	0.5	19.7	0	0.0	0	2.0
GP32-18	0.01553	9.2	8.0	0	0.0	0	0.0
GP33-18	-0.0301	11.9	2.5	0	0.0	0	0.0
USEPA GP-1 North	-0.462	1.7	19.6	0	0.0	0	0.0
USEPA GP-1 Middle	-0.00342	0.6	20.7	0	0.0	0	0.0
USEPA GP-1 South	-0.431	No flow on GEM2000+; No flow PID					
USEPA GP-2	Excluded from Field Paramter Monitoring						
USEPA GP-3 North	-0.00769	2.2	19.1	0	0	0	0.1
USEPA GP-3 SW	0.00512	1.1	19.6	0	0	0	0
USEPA GP-3 SE	0.00225	No flow on GEM2000+; No flow PID					
USEPA GP-4 North	-0.00813	2.5	17.7	0	0.0	0	0.1
USEPA GP-4 Middle	-0.00971	2.4	18.8	0	0.0	0	0.0
USEPA GP-4 South	-0.00778	2.2	19.2	0	0.0	0	0.0
USEPA GP-5 North	-1.115	4.7	15.6	0	0.0	0	0.0
USEPA GP-5 South	-0.00637	4.4	16.2	0	0.0	0	0.0
USEPA GP-6 North	-0.00475	3.2	17.5	0	0.0	0	0.0
USEPA GP-6 Middle	-0.00168	4.0	16.4	0	0.0	0	0.0
USEPA GP-6 South	-0.00316	5.1	14.4	0	0.0	0	0.0
USEPA GP-7	Could not be found						

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

3/22/2018

Barometric Pressure

29.48" Hg

Rel Pressure

-0000.08"

Weather

Clear, sunny, 34° F

Forecast

Sunny, 48° F

CO₂ Carbon Dioxide
O₂ Oxygen
LEL Lower Explosive Limit
H₂S Hydrogen Sulfide
VOC Volatile Organic Compounds
BTOR Below Top of Riser
% v/v Percent by Volume
in WC Inches Water Column

Table 2a

Soil Gas Probes - Field Parameters - August 2018
South Dayton Dump Landfill
Moraine, Ohio

Location	Field Parameters							
	Pressure (in WC)	CO ₂ % v/v	CO ppm	O ₂ % v/v	LEL % v/v	Methane (Unfiltered) % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18		16.4	0	0.0	>100	35.4	1	2.6
GP02-09		13.1	1	0.0	>100	14.8	8	0.0
GP03-09		6.4	0	11.5	0	0.0	0	0.0
GP04-09		5.5	1	0.2	5	0.2	0	0.0
GP05-09		10.2	1	7.3	0	0.0	0	0.0
GP06-09		4.7	77	13.8	3	0.1	0	36.4
GP07-18		14.3	57	0.0	>100	60.4	6	205.0
GP08-09	Insufficient gas flow. No readings.							
GP09-09		7.9	0	12.1	0	0.0	0	0.0
GP10-09		2.9	1	0.0	0	0.0	0	0.0
GP11-09		6.4	0	12.5	0	0.0	0	0.0
GP12-09		0.9	0	18.8	0	0.0	0	0.0
GP13-09		14.3	0	0.0	0	0.0	0	0.0
GP14-09		3.3	0	16.2	0	0.0	0	5.4
GP15-09		6.3	0	12.8	0	0.0	0	0.0
GP16-09		9.7	0	0.0	13	0.7	0	0.0
GP19-18		11.2	1	0.0	40	2.0	2	0.0
GP20-18		10.7	1	2.4	0	0.0	0	0.0
GP21-09		1.8	0	0.0	33	1.6	1	0.0
GP22-13		9.3	1	0.0	1	0.0	0	0.0
GP23-13		7.2	0	10.7	0	0.0	0	0.0
GP24A-13		11.8	0	5.5	0	0.0	0	0.0
GP24B-13		6.7	1	11.7	0	0.0	0	0.0
GP25-18		3.8	1	1.6	64	3.2	6	0.0
GP26-18		9.6	4	0.0	52	2.6	0	0.0
GP27-18		7.7	1	0.0	10	0.5	0	2.7
GP28-18		4.5	1	0.0	>100	7.0	2	0.0
GP29-18		5.0	1	0.0	1	0.0	0	0.0
GP30-18		0.0	0	20.0	0	0.0	0	0.0
GP31-18		0.9	0	18.9	0	0.0	0	0.0
GP32-18		17.0	0	0.2	4	0.2	0	0.1
GP33-18		13.1	0	1.0	0	0.0	0	0.0
GP34-18		10.2	0	6.3	0	0.0	0	0.0
USEPA GP-1 North		3.4	1	15.5	0	0.0	0	0.0
USEPA GP-1 Middle		2.3	1	16.9	0	0.0	0	0.0
USEPA GP-1 South	Insufficient gas flow. No readings.							
USEPA GP-2	Excluded from Field Parameters Monitoring							
USEPA GP-3 North	Probe could not be located. No readings.							
USEPA GP-3 SW								
USEPA GP-3 SE								
USEPA GP-4 North		6.7	0	2.9	0	0.0	0	3.1
USEPA GP-4 Middle		6.8	0	2.5	0	0.0	0	2.9
USEPA GP-4 South		6.1	0	2.1	0	0.0	0	2.7
USEPA GP-5 North		4.7	0	12.8	0	0.0	0	2.7
USEPA GP-5 South								
USEPA GP-6 North		7.0	0	7.6	0	0.0	0	3.1
USEPA GP-6 Middle		7.6	0	6.7	0	0.0	0	2.9
USEPA GP-6 South		8.1	0	5.7	0	0.0	0	2.7
USEPA GP-7	Probe could not be located. No readings.							

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

8/24/2018
Barometric Pressure
29.34-29.38" Hg
Weather
Clear, 58° F
Forecast
Sunny, 81° F, possible afternoon rain

CO₂ Carbon Dioxide
O₂ Oxygen
LEL Lower Explosive Limit
H₂S Hydrogen Sulfide
VOC Volatile Organic Compounds
BTOR Below Top of Riser
% v/v Percent by Volume
in WC Inches Water Column

Table 2b

Soil Gas Probes - Field Parameters - September 2018
South Dayton Dump Landfill
Moraine, Ohio

Location	Field Parameters									
	Pressure (in WC)	CO ₂ % v/v	CO ppm	O ₂ % v/v	LEL (Unfiltered) % v/v	LEL (Filtered) % v/v	Methane (Unfiltered) % v/v	Methane (Filtered) % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18	0.0212	16.40	0	0.10	>100	>100	34.60	34.7	0	
GP02-09	0.01557	13.50	0	0.10	>100	>100	14.60	14.6	0	
GP03-09	0.00377									
GP04-09	0.0245									
GP05-09	0.00054 to -0.00231									
GP06-09	-0.00247									
GP07-18	-0.00289	14.70	36	0.00	>100/>100	6	39.4/39.3	0.30	0	
GP08-09	0.00011 to -0.00173									
GP09-09	0.00112									
GP10-09	-0.00073									
GP11-09	-0.00690									
GP12-09	-0.00594									
GP13-09	-0.00843									
GP14-09	-0.00326									
GP15-09	-0.00776									
GP16-09	-0.0240	11.30	0	0.00	28	28	1.40	1.40	0	
GP19-18	0.00805									
GP20-18	0.0143									
GP21-09	-0.00252	2.10	0	0.10	37	37	1.80	1.80	0	
GP22-13	0.00241									
GP23-13	-0.00285									
GP24A-13	-0.00408									
GP24B-13	-0.00619									
GP25-18	-0.00025 to 0.00029	3.70	0	1.60	64	61	3.20	3.00	0	
GP26-18	0.0207	10.10	0	0.00	41	40	2.00	2.00	0	
GP27-18	0.00130									
GP28-18	0.00625	4.80	0	0.10	97	96	4.70	4.60	0	
GP29-18	0.01073									
GP30-18	-0.00037									
GP31-18	-0.00707									
GP32-18	0.209									
GP33-18	-0.0146									
GP34-18	0.00442									
USEPA GP-1 North	0.00013 to -0.00133									
USEPA GP-1 Middle	-0.00356									
USEPA GP-1 South	-0.0212									
USEPA GP-2	Excluded from Field Parameter Monitoring									
USEPA GP-3 North	-0.1407	5.20	0	11.30	0	n/a	0.00	n/a	0	
USEPA GP-3 SW	-0.00131	3.80	0	14.70	0	n/a	0.00	n/a	0	
USEPA GP-3 SE	0.00348 to -0.00257	Insufficient flow to collect readings								
USEPA GP-4 North	0.00245 to -0.00017									
USEPA GP-4 Middle	-0.422									
USEPA GP-4 South	-0.00352									
USEPA GP-5 North	0.00912									
USEPA GP-5 South										
USEPA GP-6 North	-0.00225									
USEPA GP-6 Middle	0.00046 to -0.00177									
USEPA GP-6 South	-0.00317									
USEPA GP-7 West	-0.00148	8.00	0	9.60	0	n/a	0.00	n/a	0	
USEPA GP-7 Middle	0.00022	8.20	0	9.90	0	n/a	0.00	n/a	0	
USEPA GP-7 East	-0.00078 to 0.00125	6.20	0	12.20	0	n/a	0.00	n/a	0	

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

9/4/18-9/5/18
 Barometric Pressure
 29.38-29.42" Hg

CO₂ Carbon Dioxide
 O₂ Oxygen
 LEL Lower Explosive Limit
 H₂S Hydrogen Sulfide
 VOC Volatile Organic Compounds
 BTOR Below Top of Riser
 % v/v Percent by Volume
 in WC Inches Water Column

Table 3

Soil Gas Probes - Field Parameters - November 2018
South Dayton Dump Landfill
Moraine, Ohio

	Field Parameters									
Location	Pressure (in WC)	CO ₂ % v/v	CO ppm	O ₂ % v/v	LEL (Unfiltered) % v/v	LEL (Filtered) % v/v	Methane (Unfiltered) % v/v	Methane (Filtered) % v/v	H ₂ S (ppm)	VOC (ppm)
GP01-18	-0.00230	12.2	0	0.0	>100	>100	27.6	27.1	0	0.0
GP02-09	-0.0217	14.2	0	0.8	>100	>100	17.3	17.1	0	0.0
GP03-09	0.00314	Insufficient flow to collect readings, probe appear to be flooded								
GP04-09	-0.0120	0.0	0	21.4	3	14	0.1	0.7	0	0.0
GP05-09	0.00700	6.7	0	11.5	3	3	0.1	0.1	0	0.1
GP06-09	-0.00375	2.3	0	15.7	0	0	0.0	0.0	0	0.0
GP07-18	0.00562	13.4	5	0.0	>100	4	5.2	0.2	3	55.8
GP08-09	-0.00601	Insufficient flow to collect readings								
GP09-09	Inaccessible, covered by wood pile									
GP10-09	-0.01253	4.0	0	0.0	5	5	0.2	0.2	0	25.4
GP11-09	-0.00577	4.2	0	16.2	3	3	0.1	0.1	0	0.3
GP12-09	-0.00388	0.3	0	20.9	0	0	0.0	0.0	0	0.7
GP13-09	0.0215	12.2	0	1.6	0	0	0.0	0.0	0	0.0
GP14-09	0.00134	2.3	0	18.7	0	0	0.0	0.0	0	0.0
GP15-09	0.01163	7.4	0	11.5	0	0	0.0	0.0	0	0.0
GP16-09	0.0278	8.8	0	0.0	29	29	1.4	1.4	0	0.0
GP19-18	-0.0792	11.8	0	0.0	38	36	1.9	1.8	1	0.0
GP20-18	0.0247	13.8	0	0.5	0	0	0.0	0.0	0	0.0
GP21-09	0.01913	0.5	0	12.8	32	42	1.6	2.1	0	0.0
GP22-13	-0.0320	12.2	0	0.1	2	2	0.1	0.1	0	1.4
GP23-13	-0.00931	9.9	0	9.8	0	0	0.0	0.0	0	4.9
GP24A-13	-0.00320	13.9	0	6.2	0	0	0.0	0.0	0	4.6
GP24B-13	-0.013459	6.3	0	12.4	0	0	0.0	0.0	0	6.1
GP25-18	0.00000	4.9	0	2.3	95	95	4.7	4.7	4	0.0
GP26-18	-0.0167	10.2	0	1.1	82	80	4.1	4.0	0	0.0
GP27-18	0.00344	6.2	0	0.9	35	32	1.7	1.6	0	5.4
GP28-18	0.00881	5.4	0	0.9	>100	>100	6.5	6.0	1	0.6
GP29-18	-0.01813	5.9	0	1.9	6	6	0.3	0.3	0	1.0
GP30-18	0.00000	0.0	0	21.1	0	0	0.0	0.0	0	0.4
GP31-18	-0.00169	0.0	0	21.3	0	0	0.0	0.0	0	7.7
GP32-18	-0.01732	14.9	0	4.9	0	0	0.0	0.0	0	0.0
GP33-18	0.00124	15.2	0	0.4	0	0	0.0	0.0	0	0.0
GP34-18	-6.80	9.4	0	9.5	0	0	0.0	0.0	0	4.8
USEPA GP-1 North	-0.1290	Insufficient flow to collect readings								
USEPA GP-1 Middle	-0.0346	1.6	0	20.0	0	0	0.0	0.0	0	25.0
USEPA GP-1 South	-3.18	3.7	0	17.6	0	0	0.0	0.0	0	18.5
USEPA GP-2	Excluded from Field Parameter Monitoring									
USEPA GP-3 North	-0.268	4.2	0	15.0	0	0	0.0	0.0	0	3.0
USEPA GP-3 SW	0.0788	2.2	0	18.5	0	0	0.0	0.0	0	3.8
USEPA GP-3 SE	-0.00453	Insufficient flow to collect readings								
USEPA GP-4 North	0.0141	5.8	0	10.4	0	0	0.0	0.0	0	0.0
USEPA GP-4 Middle	-0.540	6.1	0	11.0	0	0	0.0	0.0	0	0.0
USEPA GP-4 South	0.00098	6.1	0	10.3	0	0	0.0	0.0	0	0.0
USEPA GP-5 North	0.00284	6.8	0	7.7	0	0	0.0	0.0	0	0.0
USEPA GP-5 South	-0.00136	6.3	0	7.9	0	0	0.0	0.0	0	0.0
USEPA GP-6 North	Soil gas probe could not be found due to vegetation, snow and ice.									
USEPA GP-6 Middle										
USEPA GP-6 South										
USEPA GP-7 West	-0.00255	6.6	0	15.1	0	0	0.0	0.0	4.3	0.0
USEPA GP-7 Middle	-0.0073	4.3	0	17.5	0	0	0.0	0.0	0	5.2
USEPA GP-7 East	0.0198	4.3	0	17.4	0	0	0.0	0.0	0	6.2

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

11/12/18 - 11/14/18
 Barometric Pressure
 30.01"-30.55" Hg

CO₂ Carbon Dioxide
 O₂ Oxygen
 LEL Lower Explosive Limit
 H₂S Hydrogen Sulfide
 VOC Volatile Organic Compounds
 BTOR Below Top of Riser
 % v/v Percent by Volume
 in WC Inches Water Column



January 10, 2019

Reference No. 038443-111

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeck
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: December 1 through 31, 2018
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of December 1 through 31, 2018.

The next Progress Report for the month of January 2019 will be submitted on or before February 10, 2019.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in December 2018 are summarized below.

- The following general activities were completed:
 - GHD conducted miscellaneous preparation activities associated with continuing field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, preparation of site access agreements and communication with agency personnel.
 - GHD received temporary land use permits from the Miami Conservancy District (MCD) related to proposed floodplain background soil sampling, and proposed soil and groundwater sampling in the floodplain area adjacent to OU1.
 - GHD continued discussions with property owners to request permission for background soil sampling at Madden Golf Course (City of Dayton).
 - GHD coordinated the removal and disposal of investigation-derived wastewater from the on-Site Frac tank to Valicor in Middletown, Ohio, on December 4, 2018.
 - GHD collected samples of investigation-derived waste contained in roll-off boxes at the Site, in preparation for off-site disposal.
 - USEPA provided comments on the QAPP to GHD on December 10, 2018.
- The following soil/fill investigation activities were completed:
 - Background surficial soil samples were collected using hand auger from 0-2 feet below ground surface (BGS) at eight locations in Ora Everett Park on December 7, 2018. The samples from each location were submitted to TestAmerica for laboratory analysis of various parameters including: polynuclear aromatic hydrocarbons (PAHs) and metals, including mercury.
 - Background floodplain soil samples were collected using hand auger from two depth intervals (0-0.5 and 0.5-2 feet BGS) at eight locations in the Great Miami River floodplain, adjacent to Carillon Park on December 10, 2018. The samples from each location were submitted to TestAmerica for laboratory analysis of various parameters including: VOCs, SVOCs, PCBs, pesticides, herbicides, metals including mercury, and cyanide.
 - Soil samples were collected from 2-10 feet BGS at three locations in Exposure Unit 2 (EU2) on December 14, 2018. The samples from each location were collected using a coring device attached to a jackhammer, and were submitted to TestAmerica for laboratory analysis of various parameters including: VOCs, SVOCs, PCBs, pesticides, metals including total chromium, mercury, and cyanide; and chromium speciation (if required based on total chromium results).
 - Surficial soil samples were collected using hand auger from 0-2 feet BGS at nine locations in EU17 on December 20, 2018. The samples from eight locations were submitted to TestAmerica for laboratory analysis of various parameters including: VOCs, SVOCs, PCBs, pesticides, metals including total chromium, mercury, and cyanide; and chromium speciation (if required based on



total chromium results). Nine samples (including one field duplicate) were submitted for laboratory analysis of fractionated lead (subject to review of total lead results). Six samples (0-2 feet BGS) were submitted for laboratory analysis of herbicides. Three samples (0-0.5 feet BGS) were collected for asbestos analysis by polarized light microscopy (PLM) with milling, visual inspection.

- The results of the Phase 1 Soil Gas investigation activities completed in 2018 were submitted to USEPA and Ohio EPA in a letter from GHD dated December 14, 2018.
- The following groundwater investigation activities were completed:
 - Water level monitoring was completed on 40 existing monitoring well locations that were accessible. Surface water elevations were also measured in three ponds (small pond, large pond, and Quarry Pond). Monitoring locations are shown in Figure 1 and groundwater elevations are provided in Table 1.
 - One existing monitoring well (MW-220) located on DP&L property appeared to be filled with grout and was inaccessible.
- Valley Asphalt completed removal of the reclaimed asphalt material inhibiting access to MW-228 in December 2018. GHD began implementation of the Well Location and Decommissioning Work Plan on December 17, 2018, by utilizing an excavator to locate and uncover the well riser pipe for MW-228.

Removal Action ASAOC Developments

GHD provided 2018 Vapor Intrusion (VI) sampling results to Dickinson Construction (Building 17) and Globe Equipment (Building 24) in letters dated December 5, 2018.

On December 19 and 20, 2018, GHD completed sub-slab depressurization system (SSDS) inspections at buildings with an operating system, including Buildings 8 and 9 – B&G Equipment and Truck Repair, Building 12 – Overstreet Painting and S&J Precision, Building 14 – NexGen Vending, Building 15 – SIM Trainer, Building 17 – D. Dickinson Construction (formerly Megacity Construction), and Building 24 – Globe Manufacturing. All systems were functioning normally.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access.

As previously reported regarding the Century Propane facility (located on Parcel 3255), USEPA issued a written request for consent for property access to the property owner (Lynne Leigh Properties, LLC) on September 27, 2018. GHD understands that USEPA has received a response from the property owner's



legal representative (Mr. Chris Walker) indicating agreement to allow access. GHD was contacted by Mr. Walker requesting information on the proposed sampling activities, which GHD provided on October 31, 2018. GHD provided a draft access agreement to Mr. Walker on November 13, 2018. GHD provided a revised draft access agreement on November 20, 2018 based on comments provided by Mr. Walker. A final copy of the access agreement signed by the property owner, was received by GHD on December 18, 2018.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples, Quarry Pond surface water and sediment samples, and groundwater samples collected to date.
 - Update the QAPP as required based on USEPA comments.
 - Coordination and discussions with property owners regarding proposed investigation activities.
 - Preparations to conduct groundwater and soil gas investigation activities at Century Propane facility as proposed in the RI/FS Work Plan.
 - Continue implementation of the Well Location and Decommissioning Work Plan for MW-228 at Valley Asphalt property.
 - Conduct groundwater sampling within MCD property at proposed VAS-39.
- Coordinate disposal of investigation-derived waste from the on-Site roll-off boxes.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

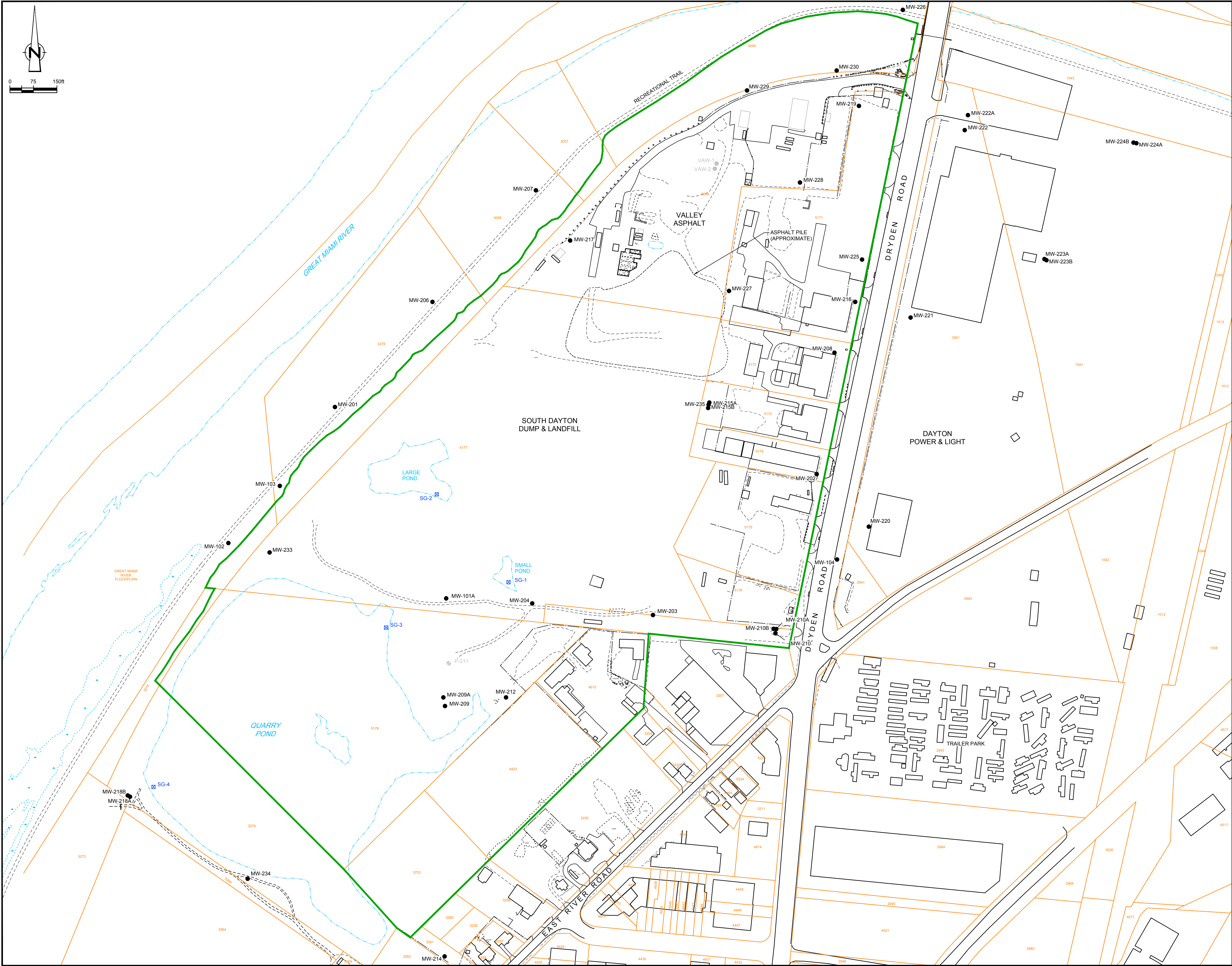
A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/cb/15

Encl.

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Michael Hughes, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD



N2	Revision	Date	Initial

- LEGEND**
- EDGE OF WATER
 - PARCEL BOUNDARY
 - PARCEL NUMBER
 - OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
 - MONITORING WELL LOCATION
 - ABANDONED WELL LOCATION
 - PIEZOMETER LOCATION
 - STAFF GAUGING LOCATION (SURVEYED)

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

RI/FS WORK PLAN

EXISTING GHD MONITORING WELL
LOCATIONS



Source Reference:

Project Manager:	Reviewed By:	Date:	DATE
Scale:	Project No.:	Report No.:	Drawing No.:
1:150	38443-111	PATT015	figure 1

Table 1

**December 2018 Quarterly Groundwater Levels
South Dayton Dump Landfill
Moraine, Ohio**

Location	Coordinates ¹		Reference*	December 2018			Notes
	Easting	Northing		Top or Riser ft AMSL	Depth to Water ft BREF	Groundwater Elevation ft AMSL	
GW-1	1485691.87	633281.09	n/a	n/a	n/a	n/a	DP&L
GW-2	1485705.16	633197.13	n/a	n/a	n/a	n/a	DP&L
GW-3	1485870.44	633265.99	n/a	n/a	n/a	n/a	DP&L
GW-4			n/a	n/a	n/a	n/a	DP&L
GW-5	1485681.66	633137.26	735.55	n/a	n/a	n/a	DP&L
GW-6	1485626.42	633192.35	734.42	n/a	n/a	n/a	DP&L
GW-7	1485607.50	633109.42	735.07	n/a	n/a	n/a	DP&L
GW-8	1485654.66	633152.28	734.92	n/a	n/a	n/a	DP&L
MW-101A	1484347.13	633062.05	725.00	13.68		711.32	
MW-102	1483652.72	633238.74	717.63	6.10		711.53	
MW-103	1483816.63	633420.79	716.50	4.83		711.67	
MW-104	1485593.26	633186.27	728.30	n/a		n/a	DP&L
MW-201	1483992.29	633672.43	715.25	3.74		711.51	
MW-202	1485528.31	633458.42	733.08	21.55		711.53	
MW-203	1485006.23	633009.04	730.11	18.75		711.36	
MW-204	1484621.37	633046.28	722.69	11.36		711.33	
MW-206	1484303.39	634007.63	716.08	4.04		712.04	Cap on protective casing repaired October 2018
MW-207	1484633.10	634363.27	716.33	4.20		712.13	
MW-208	1485584.91	633845.40	733.87	22.02		711.85	
MW-209	1484343.34	632718.83	714.26	3.21		711.05	
MW-209A	1484337.98	632746.34	714.64	3.67		710.97	
MW-210	1485396.75	632951.11	732.50	21.00		711.50	
MW-210A	1485399.45	632964.36	733.54	22.50		711.04	
MW-210B	1485390.92	632965.07	733.65	22.52		711.13	
MW-212	1484537.84	632746.38	728.83	17.88		710.95	
MW-214	1484342.04	631920.50	723.96	13.17		710.79	
MW-215A	1485186.15	633686.53	734.63	22.96		711.67	
MW-215B	1485183.69	633679.69	734.69	23.28		711.41	
MW-216	1485650.98	634007.80	732.08	20.88		711.20	
MW-217	1484742.27	634203.23	736.65	24.66		711.99	Repaired May 2018
MW-218A	1483339.09	632429.81	722.70	11.42		711.28	
MW-218B	1483331.81	632433.77	722.97	12.38		710.59	
MW-219	1485662.99	634632.62	735.34	23.28		712.06	
MW-220	1485694.49	633290.82	735.40	n/a		n/a	Filled with grout. Possibly abandoned.
MW-221	1485827.65	633957.63	735.84	24.77		711.07	
MW-222	1486000.22	634555.40	736.26	23.28		712.98	
MW-222A	1486010.55	634603.03	735.42	25.09		710.33	
MW-223A	1486254.37	634144.16	735.38	23.49		711.89	
MW-223B	1486261.00	634140.45	735.04	23.87		711.17	Repaired September 2018
MW-224A	1486547.57	634513.42	735.60	24.36		711.24	
MW-224B	1486538.41	634515.45	735.48	24.25		711.23	
MW-225	1485672.90	634142.60	731.14	19.27		711.87	
MW-226	1485803.06	634938.64	721.09	9.05		712.04	
MW-227	1485248.78	634042.62	739.10	27.09		712.01	
MW-228	1485475.11	634388.19	738.57	n/a		n/a	Under asphalt/debris pile
MW-229	1485306.20	634681.80	736.68	24.66		712.02	
MW-230	1485592.00	634745.30	737.22	25.15		712.07	
MW-233	1483784.00	633208.70	730.08	18.50		711.58	
MW-234	1483714.22	632168.22	724.066	12.75		711.32	
MW-235	1485182.31	633669.45	734.245	22.23		712.02	
P-211	1484355.17	632855.28	715.72	3.89		711.83	
SG-1 (Small Pond)	n/a	n/a	709.363	2.35		711.71	
SG-2 (Large Pond)	n/a	n/a	708.716	3.20		711.92	
SG-3 (Quarry Pond North)	n/a	n/a	705.46	6.08		711.54	
SG-4 (Quarry Pond SW)	n/a	n/a	708.593	n/a		n/a	Water above top of guage
MW-1	1485842.09	633258.84	735.13	n/a		n/a	DP&L
MW-2	1485670.65	633228.08	735.15	n/a		n/a	DP&L
MW-3	1485707.04	633409.40	736.03	n/a		n/a	DP&L
MW-4	1485692.08	633281.02	735.37	n/a		n/a	DP&L
MW-5	n/a	n/a	n/a	n/a		n/a	DP&L
MW-A	1485673.56	633284.93	735.12	n/a		n/a	DP&L
MW-B	1485677.26	633252.64	735.43	n/a		n/a	DP&L
Dryden Road Bridge**	1485899.34	635057.85	747.80	36.50		711.30	Approximate due to high winds
Culvert**	1484110.84	634679.71	724.60	12.55		712.05	

Notes:

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

ft BREF - feet below reference

ft AMSL - feet above mean sea level

* Reference point is Top Of Riser at each monitoring well

* Reference point is Bottom of Staff Gauge at the Large, Small and Quarry Pond



February 8, 2019

Reference No. 038443-111

Ms. Leslie Patterson
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45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: January 1 through 31, 2019
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA]) Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of January 1 through 31, 2019.

The next Progress Report for the month of February 2019 will be submitted on or before March 10, 2019.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in January 2019 are summarized below.

- The following general activities were completed:
 - GHD conducted miscellaneous preparation activities associated with continuing field work including coordination with property owners and tenants, subcontractor procurement, utility clearance, preparation of site access agreements and communication with agency personnel.
 - GHD continued discussions with property owners to request permission for background soil sampling at Madden Golf Course (City of Dayton).
 - GHD received analytical results for samples of investigation-derived waste contained in roll-off boxes at the Site, in preparation for off-site disposal.
- The following soil/fill investigation activities were completed:
 - GHD provided the December 2018 background soil sampling results from Ora Everett Park to the City of Moraine, on January 30, 2019.
- The following soil gas investigation activities were completed:
 - One soil gas probe (GP35-19) was installed on Parcel 3255 (Century Propane) on January 15, 2019.
 - One soil gas probe (GP08-19) was re-installed on Parcel 4423 (Jim City) on January 15, 2019.
 - Two samples in total were submitted to TestAmerica for laboratory analyses of volatile organic compounds (VOCs), fraction of organic carbon (FOC) and grain size.
- The following groundwater investigation activities were completed consisting of vertical aquifer sampling (VAS) and temporary boring/monitoring well sampling:
 - GHD provided USEPA and Ohio EPA with sampling results for Phase 2A VAS and Phase 1B Groundwater Sampling completed in August through October 2018 in a letter dated January 22, 2019.
 - Rotosonic VAS commenced on January 22, 2019 at VAS-39. Work was temporarily suspended on January 24 due to flooding conditions and re-commenced on January 29. Work was temporarily suspended on January 30 due to cold weather conditions.
 - Seven samples were submitted to TestAmerica for laboratory analysis of VOCs including 1,2-Dibromo-3-chloropropane and 1,2-Dibromomethane, metals (total and dissolved), chloride, sulfate, nitrite and nitrate.
 - Two of the seven samples were submitted to TestAmerica for additional laboratory analysis of semi-VOCs (SVOCs), pesticides, polycyclic biphenyls (PCBs), and cyanide.
 - Decontamination and purge water were placed in a Frac tank, stage on Site, pending disposal.



- Two temporary monitoring wells (BH18-19 and BH19-19) were completed on January 14, 2019, on Parcel 3255 (Century Propane) using Geoprobe drilling technology.
- Three groundwater samples (including field duplicates) were collected from two temporary monitoring well locations and submitted to TestAmerica for laboratory analyses of VOCs including 1,2-Dibromo-3-chloropropane and 1,2-Dibromomethane, SVOCs, PCBs, pesticides, herbicides, metals (total and dissolved), mercury, cyanide, chloride, sulfate, nitrite and nitrate.
- GHD provided notification to DP&L regarding one existing monitoring well (MW-220) which appears to be filled with grout and therefore is inaccessible.

Removal Action ASAO Development

GHD provided 2018 Vapor Intrusion (VI) sampling results to Overstreet Painting (Building 12) and S&J Precision (Building 12) in letters dated January 2, 2019.

GHD provided 2018 VI sampling results to B&G Equipment and Truck Repair (Buildings 8 and 9), NexGen Vending (Building 14), and SIM Trainer (Building 15) in letters dated January 16, 2019.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access. GHD understands that the property owner has not responded to USEPA.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to working and weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples and groundwater samples collected to date.
 - Update the QAPP as required based on USEPA comments.
 - Continue implementation of the Well Location and Decommissioning Work Plan for MW-228 at Valley Asphalt property.
 - Continue groundwater sampling within MCD property at proposed VAS-39.



- Coordinate disposal of investigation-derived waste from the on-Site roll-off boxes.
- Complete annual VI sampling at Building 24 – Globe Manufacturing and Building 17 – D. Dickinson Construction.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/ks/16

Encl.

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Andrew Dorn, ITW
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Michael Hughes, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD



March 8, 2019

Reference No. 038443-111

Ms. Leslie Patterson
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Ms. Tamara McPeck
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USEPA Region V
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26 West Martin Luther King Drive
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45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: February 1 through 28, 2019
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA] Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of February 1 through 28, 2019.

The next Progress Report for the month of March 2019 will be submitted on or before April 10, 2019.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in February 2019 are summarized below.

- The following general activities were completed:
 - Removal and off-Site disposal of investigation-derived waste (IDW) contained within five roll-off boxes and the on-Site Frac tank (approximately 3,800 gallons), was completed on February 12, 2019.
 - Cleaning and demobilization of the on-Site Frac tank was completed on February 13, 2019.
 - GHD continued discussions with property owners to request permission for background soil sampling at Madden Golf Course (City of Dayton).
 - GHD prepared draft revisions to the Quality Assurance Project Plan (QAPP) in response to comments provided by USEPA in December 2018.
- Soil gas investigation activities:
 - GHD received a letter from USEPA dated February 28, 2019 which provides comments regarding the soil gas investigation results submitted by GHD on December 14, 2018.
- The following groundwater investigation activities were completed consisting of vertical aquifer sampling (VAS), monitoring well abandonment and reporting:
 - Rotosonic drilling and sampling at VAS-39 continued on February 2, 2019 and was completed on February 20, 2019. Work was temporarily suspended for multiple days in February due to adverse weather conditions (i.e., cold weather, rain and flooding) and drilling equipment malfunction.
 - Five samples from VAS-39 were submitted to TestAmerica for laboratory analysis of VOCs including 1,2-Dibromo-3-chloropropane and 1,2-Dibromomethane, metals (total and dissolved), chloride, sulfate, nitrite and nitrate. GHD was unable to collect a groundwater sample from one interval (50-60 ft BGS) due to insufficient formation water. Decontamination and purge water were placed in a polyethylene storage tank, staged on Site, pending disposal.
 - One monitoring well (MW-228 located on Valley Asphalt property) was abandoned by Cascade Drilling in accordance with the Well Location and Decommissioning Work Plan, on February 21, 2019.
 - GHD submitted the results for monitoring well sampling conducted in 2018 in a letter to the agencies dated February 21, 2019



Removal Action ASAOOC Developments

GHD coordinated annual vapor intrusion (VI) sampling at Building 17 (Dickinson Construction) and Building 24 (Globe Equipment) to be conducted during the week of February 25, 2019 (and completed the sampling on March 1, 2019).

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Resident(s) at [REDACTED] non-responsive [REDACTED] no response)

USEPA has agreed to contact the above mentioned property regarding access. GHD understands that the property owner has not responded to USEPA.

Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS sampling activities in accordance with the approved work plan, subject to weather conditions, accessibility, and subcontractor availability. The planned activities include:
 - Continue data validation and assessment for soil/ fill samples and groundwater samples collected to date.
 - Discussion with USEPA regarding QAPP comments, prior to re-submittal of revised QAPP.
 - Preparation and agency submittal of Quarry Pond surface water and sediment sampling results.
 - Preparation and agency submittal of response to comments regarding soil gas investigation sampling results.
 - Preparation and agency submittal of documentation regarding completion of well abandonment activities.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.
- Complete quarterly sub-slab depressurization system (SSDS) inspections at all buildings with an operating SSDS.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/kf/17

Encl.

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Andrew Dorn, ITW
Scott Blackhurst, Kelsey Hayes Company
Ben Prevost, NCR
Michael Hughes, Neal, Gerber & Eisenberg
Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD



April 10, 2019

Reference No. 038443-111

Ms. Leslie Patterson
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Ms. Tamara McPeck
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45402

Mr. Steve Renninger
On-Scene Coordinator
USEPA Region V
Emergency Response Branch
26 West Martin Luther King Drive
Cincinnati, Ohio
45268

Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: March 1 through 31, 2019
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA] Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of March 1 through 31, 2019.

The next Progress Report for the month of April 2019 will be submitted on or before May 10, 2019.



Significant Developments in this Reporting Period

RI/FS ASAO C Developments

Activities conducted in March 2019 are summarized below.

- The following general activities were completed:
 - GHD and USEPA participated in a conference call on March 5 to discuss USEPA's comments on the Quality Assurance Project Plan (QAPP). GHD provided draft QAPP revisions and response to USEPA comments on the QAPP in a letter dated March 13, 2019.
 - GHD continued discussions with property owners to request permission for background soil sampling at Madden Golf Course (City of Dayton).
- GHD continued data validation and data assessment activities for analytical results for investigative samples (soil/fill, groundwater, surface water and sediment) collected in 2018/2019.
- GHD reviewed USEPA comments dated February 28, 2019 regarding soil gas investigation activities completed in 2018.

Removal Action ASAO C Developments

On March 1, 2019, GHD completed annual vapor intrusion (VI) sampling at Building 17 (Dickinson Construction) and Building 24 (Globe Equipment).

On March 21, 2019, GHD completed sub slab depressurization system (SSDS) inspections at buildings with an operating system, including Buildings 8 and 9 – B&G Equipment and Truck Repair, Building 12 – Overstreet Painting and S&J Precision, Building 14 – NexGen Vending, Building 15 – SIM Trainer, Building 17 – D. Dickinson Construction (formerly Megacity Construction), and Building 24 – Globe Manufacturing. All systems were functioning normally.

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access. GHD understands that the property owner has not responded to USEPA.



Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS activities in accordance with the approved work plan. The planned activities include:
 - Continue data validation and data assessment for investigative samples collected to date.
 - Preparation and agency submittal of Quarry Pond surface water and sediment sampling results.
 - Preparation and agency submittal of response to comments regarding soil gas investigation sampling results.
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan. The planned activities include:
 - Conduct data validation and data assessment for VI samples collected from Buildings 17 and 24 on March 1, 2019.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/kf/18

Encl.

cc: (all by pdf) Ken Brown, ITW
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Wray Blattner, Thompson Hine
Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD



May 10, 2019

Reference No. 038443-111

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Dear Ms. Patterson, Ms. McPeck, and Mr. Renninger:

**Re: Progress Report: April 1 through 30, 2019
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)**

This Monthly Progress Report is submitted in accordance with the Administrative Settlement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) Proceeding Under Sections 104, 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. §§ 9604, 9607, and 9622 (United States Environmental Protection Agency [USEPA] Docket No. V-W-16-C-011) effective June 11, 2016 (RI/FS ASAOC), and the ASAOC for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C. §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013 (Removal Action ASAOC), for the period of April 1 through 30, 2019.

The next Progress Report for the month of May 2019 will be submitted on or before June 10, 2019.



Significant Developments in this Reporting Period

RI/FS ASAOC Developments

Activities conducted in April 2019 are summarized below.

- The following general activities were completed:
 - GHD provided information regarding well decommissioning activities via letter to Ohio EPA dated April 1, 2019.
 - GHD and USEPA participated in a conference call on April 5 to discuss USEPA's comments on the soil gas investigation results.
 - On April 5 GHD received notification from USEPA regarding approval of draft QAPP revisions.
 - GHD continued discussions with property owners to request permission for background soil sampling at Madden Golf Course (City of Dayton).
- GHD continued data validation and data assessment activities for analytical results for investigative samples (soil/fill, groundwater, surface water and sediment) collected in 2018/2019.
- GHD submitted the updated soil gas investigation results and response to agency comments via letters dated April 22, 2019.
- GHD submitted the sampling results for Quarry Pond surface water and sediment to USEPA and Ohio EPA via letter dated April 26, 2019.

Removal Action ASAOC Developments

As reported previously, GHD completed annual vapor intrusion (VI) sampling at Building 17 (D. Dickinson Construction) and Building 24 (Globe Equipment) on March 1, 2019. Analytical results from the March 2019 sampling round confirm indoor air concentrations remain less than applicable Ohio Department of Health (ODH) Screening Levels. Validated analytical results from March 2012 through March 2019 for Buildings 17 and 24 are provided in Table 1 and 2, respectively (with highlighting for the 2019 sample results). The sample locations and analytical results are illustrated on attached Figure 1 (Building 17) and Figure 2 (Building 24).

Summaries of all Anticipated Problems and Planned Resolutions

Requests for site access to perform environmental sampling have not been granted by the following properties:

Outside OU1

- Resident(s) at [REDACTED] non-responsive (no response)

USEPA has agreed to contact the above mentioned property regarding access. GHD understands that the property owner has not responded to USEPA, and USEPA does not plan to pursue this further. This potential data gap will be addressed as part of the assessment of investigative work completed to date.



Projected Work for the Next Reporting Period

- Continue scheduling and planning RI/FS activities in accordance with the approved work plan. The planned activities include:
 - Submittal of updated QAPP.
 - Continue data validation and data assessment for investigative samples collected to date.
 - Preparation and submittal of results for groundwater sampling conducted in January and February 2019.
 - Preparation of Interim Technical Memorandum for Soil/Fill Investigation
 - Preparation of Interim Technical Memorandum for Groundwater Investigation
- The Respondents and USEPA On-Scene Coordinator will continue to work together to implement the VI mitigation work plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Julian Hayward". The signature is written in a cursive, flowing style.

Julian Hayward

JH/kf/19

Encl.

cc: (all by pdf) Ken Brown, ITW
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Larry Silver, Langsam Stevens Silver & Hollaender
Tim Hoffman, Dinsmore & Shohl
Brett Fishwild, Jacobs
Valerie Chan, GHD
Steve Quigley, GHD

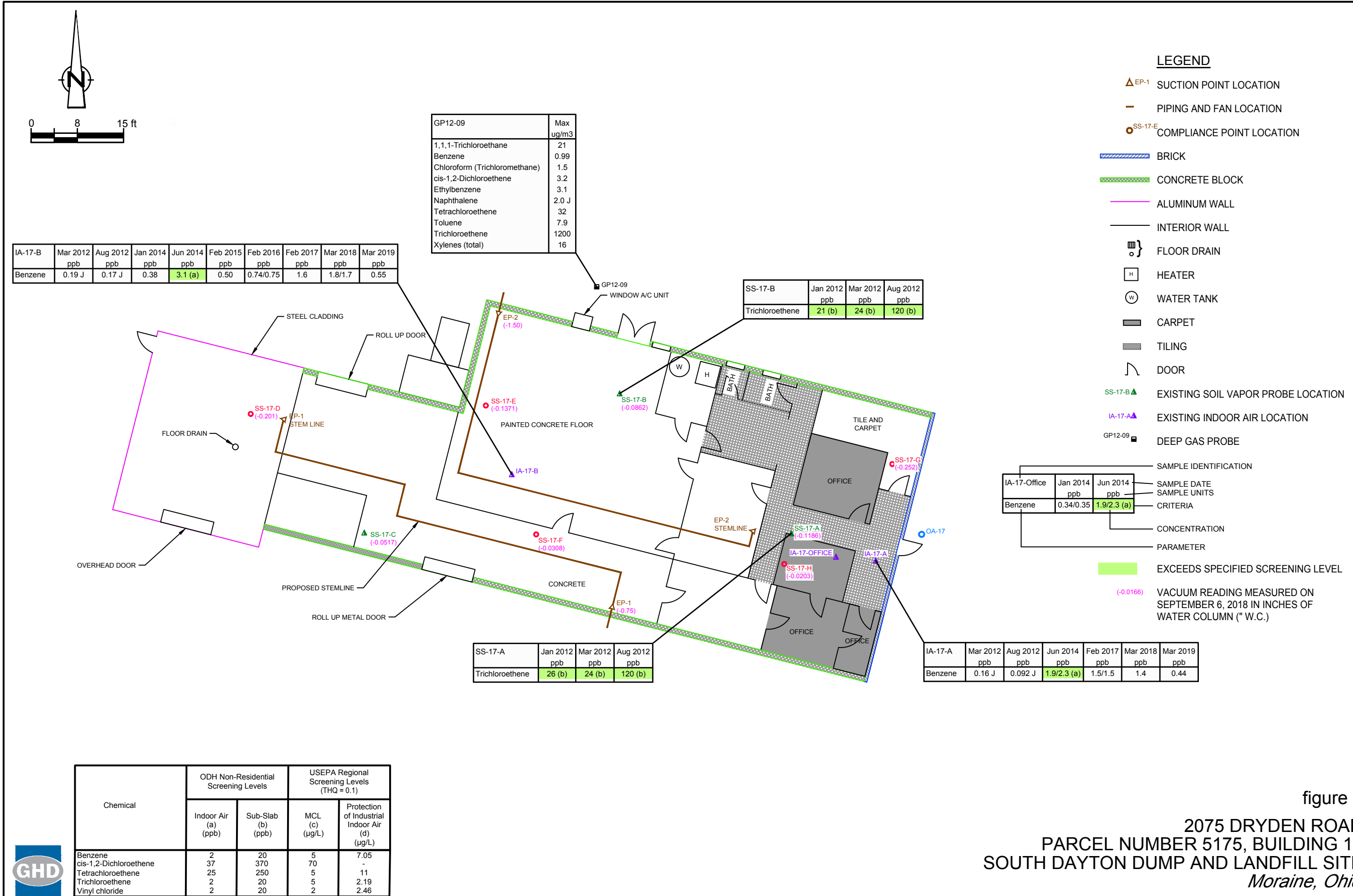


figure 1
2075 DRYDEN ROAD
PARCEL NUMBER 5175, BUILDING 17
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

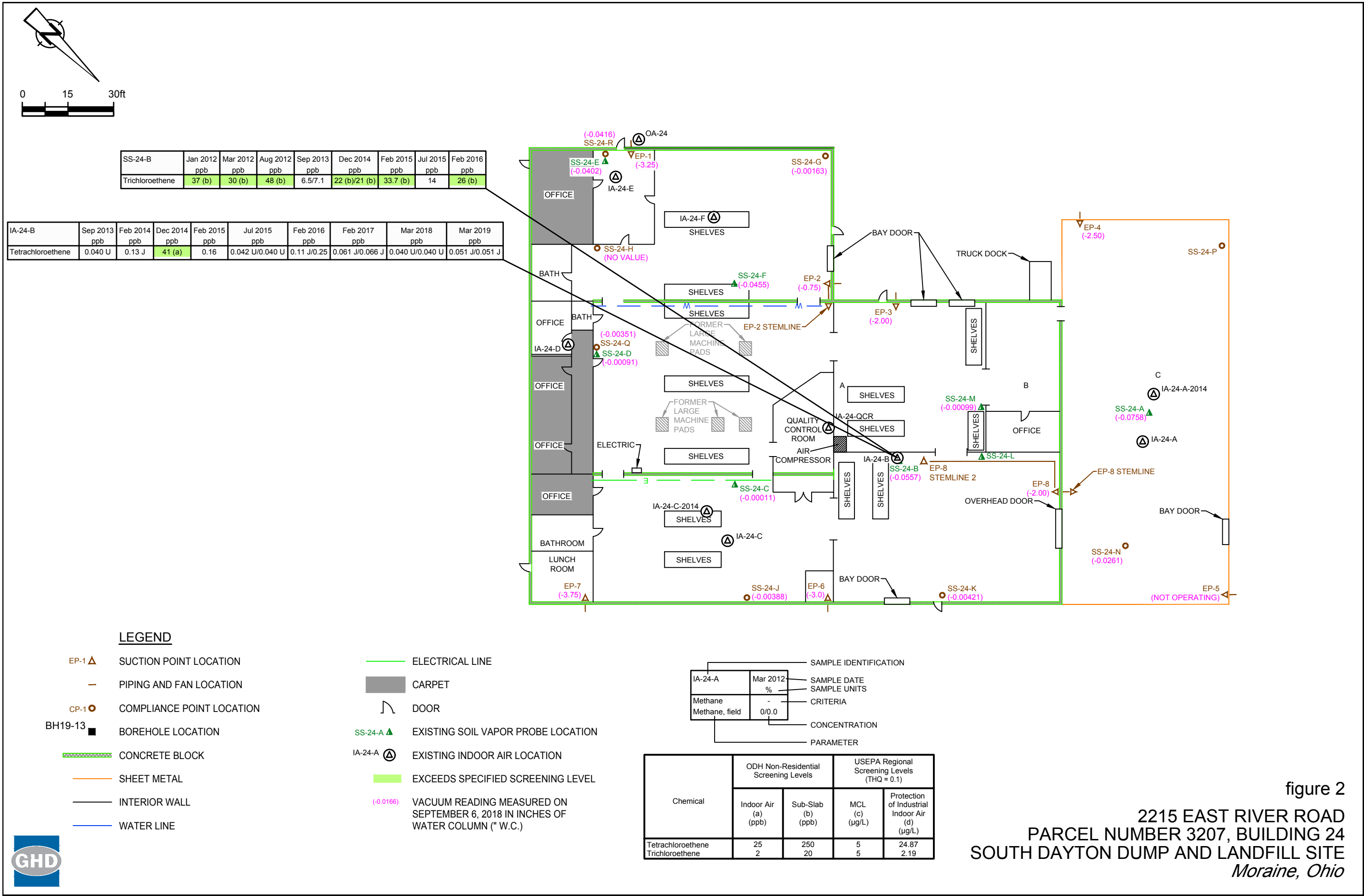


Table 1

Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:			IA-17-A	IA-17-A	IA-17-A	IA-17-A	IA-17-A	IA-17-A
Sample ID:			IA-38443-030712-JC-105	IA-38443-080112-GL-022	IA-38443-060314-GL-001	IA-38443-060314-GL-002	IA-38443-022217-JC-005	IA-38443-022217-JC-006
Sample Date:			3/7/2012	8/1/2012	6/3/2014	6/3/2014	2/22/2017	2/22/2017
						Duplicate		Duplicate
Parameters	Units	ODH Non-Residential Screening Levels						
		Sub-Slab Soil Gas	Indoor Air					
		a	b					
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	20	2	0.16 J	0.092 J	1.9	1.5	1.5
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	2500	250	0.068 U	0.068 U	1.7	2.2	2.0
m&p-Xylenes	ppbv	2000	200	0.13 J	0.12 U	6.9	8.5	7.6
Naphthalene	ppbv	29	2.9	0.090 UJ	0.090 U	0.22 J	0.18 J	0.18 J
o-Xylene	ppbv	2000	200	0.061 U	0.061 U	2.2	2.9	2.6
Tetrachloroethene	ppbv	250	25	0.040 U	0.040 U	0.040 U	0.060 J	0.045 J
Trichloroethene	ppbv	20	2	0.036 U	0.062 J	0.049 U	0.063 U	0.23
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 1

**Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	IA-17-A	IA-17-A	IA-17-B	IA-17-B	IA-17-B	IA-17-B	IA-17-B	IA-17-B	IA-17-B
Sample ID:	IA-38443-030618-JC-002	IA-38443-030119-JC-002	IA-38443-030712-JC-107	IA-38443-080112-GL-021	IA-38443-011614-GL-010	IA-38443-060314-GL-003	IA-38443-021915-GL-024	IA-38443-021016-GL-002	
Sample Date:	3/6/2018	3/1/2019	3/7/2012	8/1/2012	1/16/2014	6/3/2014	2/19/2015	2/10/2016	
Parameters	Units								
Volatile Organic Compounds									
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	1.4	0.44	0.19 J	0.17 J	0.38	3.1 ^b	0.50	0.75
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.038 U	0.043 J	0.050 J	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	1.2	0.40	0.11 J	0.13 J	0.93	3.3	0.54	0.52
m&p-Xylenes	ppbv	4.7	1.6	0.39	0.53	2.9	13	1.9	2.0
Naphthalene	ppbv	0.15 J	0.10 J	0.090 UJ	0.19 J	0.090 UJ	0.36 J	0.090 U	0.090 U
o-Xylene	ppbv	1.5	0.62	0.14 J	0.22	0.80	4.4	0.57	0.59
Tetrachloroethene	ppbv	0.33	0.082 J	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U
Trichloroethene	ppbv	0.036 U	0.036 U	0.036 U	0.18 J	0.036 U	0.12 U	0.057 J	0.044 J
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 1

**Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	IA-17-B	IA-17-B	IA-17-B	IA-17-B	IA-17-B	IA-17-Office	IA-17-Office	IA-17-Office
Sample ID:	IA-38443-021016-GL-003	IA-38443-022217-JC-007	IA-38443-030618-JC-004	IA-38443-030618-JC-005	IA-38443-030119-JC-003	IA-38443-011614-GL-008	IA-38443-011614-GL-009	IA-38443-021915-GL-023
Sample Date:	2/10/2016	2/22/2017	3/6/2018	3/6/2018	3/1/2019	1/16/2014	1/16/2014	2/19/2015
Parameters	Units			Duplicate			Duplicate	
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	0.74	1.6	1.8	0.55	0.34	0.35	0.48
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	0.52	2.2	1.4	0.55	0.87	0.63	0.46
m&p-Xylenes	ppbv	2.0	8.3	5.6	2.2	2.7	1.9	1.6
Naphthalene	ppbv	0.090 U	0.15 J	0.16 J	0.097 J	0.090 UJ	0.090 UJ	0.090 U
o-Xylene	ppbv	0.60	2.9	1.8	0.86	0.75	0.55	0.47
Tetrachloroethene	ppbv	0.040 U	0.042 J	0.26	0.10 J	0.040 U	0.040 U	0.050 J
Trichloroethene	ppbv	0.044 J	0.28	0.036 U	0.036 U	0.036 U	0.058 U	0.039 J
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 1

Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:		IA-17-Office	IA-17-Office	IA-17-Office	IA-17-Office	IA-17-Office	OA-17	OA-17
Sample ID:		IA-38443-021016-GL-001	IA-38443-022217-JC-008	IA-38443-030618-JC-001	IA-38443-030119-JC-004	IA-38443-030119-JC-005	OA-38443-030712-JC-104	OA-38443-080112-GL-023
Sample Date:		2/10/2016	2/22/2017	3/6/2018	3/1/2019	3/1/2019 Duplicate	3/7/2012	8/1/2012
Parameters	Units							
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	0.63	1.6	1.2	0.41	0.44	0.14 J	0.22
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.038 U	0.14 J	0.038 U	0.038 U	0.042 J
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	0.50	1.9	1.0	0.39	0.40	0.068 U	0.16 J
m&p-Xylenes	ppbv	1.9	6.6	4.2	1.6	1.6	0.12 U	0.58
Naphthalene	ppbv	0.090 U	0.090 UJ	0.13 J	0.16 J	0.14 J	0.090 UJ	0.090 U
o-Xylene	ppbv	0.60	2.1	1.3	0.64	0.63	0.061 U	0.24
Tetrachloroethene	ppbv	0.040 U	0.046 J	0.30	0.087 J	0.083 J	0.040 U	0.040 U
Trichloroethene	ppbv	0.036 U	0.28	0.036 U	0.036 U	0.036 U	0.036 U	0.16 J
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 1

Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	OA-17		OA-17	OA-17	OA-17	OA-17	OA-17-2014	OA-17-2015
Sample ID:	OA-38443-011614-GL-011	OA-38443-060314-GL-004	OA-38443-021016-GL-004	OA-38443-022217-JC-009	OA-38443-030618-JC-003		OA-38443-030119-JC-001	OA-38443-021915-GL-025
Sample Date:	1/16/2014	6/3/2014	2/10/2016	2/22/2017	3/6/2018		3/1/2019	2/19/2015
Parameters	Units							
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U		0.026 U	0.026 UJ
Benzene	ppbv	0.15 J	0.071 J	0.19 J	0.19 J	0.22	0.22	0.23 J
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 UJ
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 UJ
Ethylbenzene	ppbv	0.068 U	0.068 U	0.068 U	0.070 J	0.072 J	0.073 J	0.068 UJ
m&p-Xylenes	ppbv	0.13 J	0.13 J	0.12 U	0.24	0.26	0.26	0.12 UJ
Naphthalene	ppbv	0.090 U	0.090 U	0.090 U	0.090 UJ	0.095 J	0.091 U	0.090 UJ
o-Xylene	ppbv	0.061 U	0.061 U	0.061 U	0.097 J	0.092 J	0.099 J	0.061 UJ
Tetrachloroethene	ppbv	0.040 U	0.040 U	0.040 U	0.047 J	0.040 U	0.040 U	0.040 UJ
Trichloroethene	ppbv	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.041 J
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 UJ

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 1

Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	SS-17-A	SS-17-A	SS-17-A	SS-17-B	SS-17-B	SS-17-B	SS-17-C
Sample ID:	SS-38443-010912-JC-044	SS-38443-030712-JC-106	SS-38443-080112-GL-029	SS-38443-010912-JC-045	SS-38443-030712-JC-108	SS-38443-080112-GL-020	SS-38443-010912-JC-046
Sample Date:	1/9/2012	3/7/2012	8/1/2012	1/9/2012	3/7/2012	8/1/2012	1/9/2012
Parameters	Units						
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	0.035 U	0.026 U	0.046 U	0.28 U	0.026 U	0.035 U
Benzene	ppbv	0.20	0.12 J	0.29 J	0.14 U	0.056 U	0.018 U
Chloroform (Trichloromethane)	ppbv	0.031 U	0.038 U	0.70	0.25 U	0.038 U	0.031 U
cis-1,2-Dichloroethene	ppbv	0.014 U	0.060 U	0.11 U	0.11 U	0.060 U	0.14 J
Ethylbenzene	ppbv	0.40	0.18 J	0.35	0.18 U	0.068 U	0.022 U
m&p-Xylenes	ppbv	1.0	0.47	1.5	0.38 U	0.12 U	0.074 J
Naphthalene	ppbv	0.21 J	0.12 J	0.25 J	0.69 U	0.090 UJ	0.086 U
o-Xylene	ppbv	0.57	0.24	0.90	0.18 U	0.061 U	0.031 J
Tetrachloroethene	ppbv	1.3	1.0	4.9	0.44 J	0.58	0.25
Trichloroethene	ppbv	26 ^a	24 ^a	120 ^a	21 ^a	24 ^a	0.26
Vinyl chloride	ppbv	0.029 U	0.071 U	0.12 U	0.23 U	0.071 U	0.029 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 1

**Summary of Building 17 - D. Dickinson Construction Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	SS-17-C		SS-17-C		SS-17-C	
Sample ID:	SS-38443-030712-JC-109		SS-38443-080112-GL-018		SS-38443-080112-GL-019	
Sample Date:	3/7/2012		8/1/2012		8/1/2012	
					Duplicate	
Parameters	Units					
Volatile Organic Compounds						
1,1-Dichloroethane	ppbv	0.026 U	0.026 U		0.026 U	
Benzene	ppbv	0.056 U	0.056 U		0.41	
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U		0.038 U	
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U		0.060 U	
Ethylbenzene	ppbv	0.068 U	0.068 UJ		0.42 J	
m&p-Xylenes	ppbv	0.12 U	0.15 J		2.6 J	
Naphthalene	ppbv	0.090 UJ	0.090 U		0.090 U	
o-Xylene	ppbv	0.061 U	0.062 J		1.2 J	
Tetrachloroethene	ppbv	0.13 J	1.2		1.4	
Trichloroethene	ppbv	0.074 J	1.1		1.1	
Vinyl chloride	ppbv	0.071 U	0.071 U		0.071 U	

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:

Sample ID:

Sample Date:

Parameters	Units	ODH Non-Residential Screening Levels							
		Sub-Slab Soil Gas		Indoor Air					
		a	b						
Volatile Organic Compounds									
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	20	2	0.23	0.22	0.45	0.29	0.37	0.056 U
Chloroform (Trichloromethane)	ppbv	800	80	0.038 U	0.038 U	0.076 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	2500	250	2.1	3.2	3.7	0.84	1.0	0.068 U
m&p-Xylenes	ppbv	2000	200	8.4	11	14	2.8	3.4	0.12 U
Naphthalene	ppbv	29	2.9	0.090 UJ	0.096 J	0.21 J	0.090 U	0.090 U	0.090 U
o-Xylene	ppbv	2000	200	3.9	6.4	6.1	1.4	1.3	0.061 U
Tetrachloroethene	ppbv	250	25	0.23	0.22	0.083 J	0.13 J	0.18 J	0.040 U
Trichloroethene	ppbv	20	2	0.057 J	0.053 J	0.072 U	0.048 J	0.036 U	0.036 U
Vinyl chloride	ppbv	20	2	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

**Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B
Sample ID:	IA-38443-020714-JT-005	IA-38443-120514-GL-003	IA-38443-022015-GL-030	SDD-IA-24B-0215	IA-38443-022015-GL-031	IA-38443-071615-6L-033	IA-38443-071615-6L-034	IA-38443-021116-GL-007
Sample Date:	2/7/2014	12/5/2014	2/20/2015	2/20/2015	2/20/2015	7/16/2015	7/16/2015	2/11/2016
Parameters	Units				Duplicate		Duplicate	
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U	0.052 U	0.026 U	0.29 U	0.026 U	0.027 U	0.026 U
Benzene	ppbv	0.28	0.67	0.48	0.52	0.46	0.11 J	0.32
Chloroform (Trichloromethane)	ppbv	0.038 U	0.076 U	0.038 U	0.14 U	0.038 U	0.040 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.12 U	0.060 U	0.72 U	0.060 U	0.063 U	0.060 U
Ethylbenzene	ppbv	0.60	0.92	0.39	0.43	0.37	0.29	0.86
m&p-Xylenes	ppbv	1.9	3.5	1.5	1.8	1.5	0.69	3.8
Naphthalene	ppbv	0.090 U	0.18 U	0.090 U	0.71 U	0.090 U	0.094 U	0.090 U
o-Xylene	ppbv	0.90	1.4	0.61	0.72	0.59	0.29	1.7
Tetrachloroethene	ppbv	0.13 J	41 ^p	0.14 J	0.16	0.13 J	0.042 U	0.11 J
Trichloroethene	ppbv	0.059 J	0.072 U	0.061 J	0.14 U	0.062 J	0.038 U	0.057 J
Vinyl chloride	ppbv	0.071 U	0.14 U	0.071 U	0.14 U	0.071 U	0.074 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

41

 - concentration is greater than specified criteria

Table 2

**Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:		IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B
Sample ID:		IA-38443-021116-GL-008	IA-38443-022217-JC-001	IA-38443-022217-JC-002	IA-38443-032218-GL-001	IA-38443-032218-GL-002	IA-38443-030119-JC-007	IA-38443-030119-JC-008
Sample Date:		2/11/2016	2/22/2017	2/22/2017	3/22/2018	3/22/2018	3/1/2019	3/1/2019
Parameters		Duplicate		Duplicate		Duplicate		Duplicate
Units								
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	0.32	0.28	0.23	0.19 J	0.20	0.28	0.25
Chloroform (Trichloromethane)	ppbv	0.073 J	0.038 U	0.041 J	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	0.91	1.6	1.3	0.52	0.65	2.2	2.2
m&p-Xylenes	ppbv	4.2	6.4	5.5	1.7	2.3	11	11
Naphthalene	ppbv	0.090 U	0.090 UJ	0.097 J	0.090 U	0.090 U	0.090 U	0.090 U
o-Xylene	ppbv	2.0	2.5	2.1	0.75	1.0	4.3	4.4
Tetrachloroethene	ppbv	0.25	0.061 J	0.066 J	0.040 U	0.040 U	0.051 J	0.051 J
Trichloroethene	ppbv	0.069 J	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	IA-24-C	IA-24-C	IA-24-C	IA-24-C	IA-24-C	IA-24-C-2014	IA-24-D
Sample ID:	IA-38443-031012-JC-144	IA-38443-031012-JC-145	IA-38443-081112-GL-087	IA-38443-091113-GL-008	IA-38443-020714-JT-004	IA-38443-120514-GL-005	IA-38443-031012-JC-148
Sample Date:	3/10/2012	3/10/2012	8/11/2012	9/11/2013	2/7/2014	12/5/2014	3/10/2012
Parameters	Units	Duplicate					
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U
Benzene	ppbv	0.24	0.25	0.37	0.33 J	0.27	0.19 J
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.039 J	0.076 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U
Ethylbenzene	ppbv	2.2	1.8	2.9	2.9	0.50	0.63
m&p-Xylenes	ppbv	9.6	7.4	7.9	10	1.7	2.5
Naphthalene	ppbv	0.090 UJ	0.090 UJ	0.13 J	0.35 J	0.090 U	0.090 UJ
o-Xylene	ppbv	4.5	3.6	3.7	3.8	0.81	1.1
Tetrachloroethene	ppbv	0.28	0.30	0.44	0.080 U	0.12 J	0.11 J
Trichloroethene	ppbv	0.071 J	0.070 J	0.12 J	0.072 U	0.064 J	0.036 U
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

**Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	IA-24-D	IA-24-D	IA-24-D	IA-24-D	IA-24-D	IA-24-D	IA-24-D	IA-24-D
Sample ID:	IA-38443-081112-GL-089	IA-38443-091213-GL-017	IA-38443-020714-JT-002	IA-38443-120514-GL-006	IA-38443-022217-JC-003	IA-38443-032218-GL-003	IA-38443-030119-JC-009	
Sample Date:	8/11/2012	9/12/2013	2/7/2014	12/5/2014	2/22/2017	3/22/2018	3/1/2019	
Parameters	Units							
Volatile Organic Compounds								
1,1-Dichloroethane	ppbv	0.026 U		0.026 U		0.026 U		0.026 U
Benzene	ppbv	0.24	0.42	0.27	0.35	0.25	0.19 J	0.29
Chloroform (Trichloromethane)	ppbv	0.079 J	0.078 J	0.038 U	0.095 J	0.059 J	0.073 J	0.038 J
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	1.4	0.99	0.45	0.50	1.2	0.56	1.0
m&p-Xylenes	ppbv	3.7	3.6	1.5	1.6	5.2	2.0	4.6
Naphthalene	ppbv	0.090 UJ	0.13 J	0.090 U	0.12 J	0.090 UJ	0.090 U	0.090 U
o-Xylene	ppbv	1.7	1.8	0.66	0.64	1.9	0.84	1.8
Tetrachloroethene	ppbv	0.24	0.049 J	0.092 J	0.095 J	0.061 J	0.041 J	0.074 J
Trichloroethene	ppbv	0.37	0.11 J	0.085 J	0.14 J	0.32	0.12 J	0.11 J
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	IA-24-E		IA-24-F		IA-24-F		IA-24-F		IA-24-F		IA-24-QCR			
Sample ID:	IA-38443-120514-GL-008		IA-38443-031012-JC-151		IA-38443-081112-GL-094		IA-38443-091113-GL-005		IA-38443-020714-JT-006		IA-38443-120514-GL-010		IA-38443-120514-GL-007	
Sample Date:	12/5/2014		3/10/2012		8/11/2012		9/11/2013		2/7/2014		12/5/2014		12/5/2014	
Parameters	Units													
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	0.026 U	0.026 U		0.026 U		0.13 U		0.026 U		0.026 U		0.026 U	
Benzene	ppbv	0.36	0.31		0.69		0.51 J		0.24		0.36		0.31	
Chloroform (Trichloromethane)	ppbv	0.042 J	0.038 U		0.041 J		0.19 U		0.038 U		0.038 U		0.17 J	
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U		0.060 U		0.30 U		0.060 U		0.060 U		0.060 U	
Ethylbenzene	ppbv	0.52	1.4		2.4		0.82 J		0.35		0.63		0.55	
m&p-Xylenes	ppbv	1.7	5.9		7.3		3.0		1.1		2.2		1.9	
Naphthalene	ppbv	0.095 J	0.090 UJ		0.15 J		0.45 U		0.090 U		0.090 U		0.090 U	
o-Xylene	ppbv	0.68	2.7		3.1		1.2		0.45		0.87		0.75	
Tetrachloroethene	ppbv	0.11 J	0.17 J		0.23		0.20 U		0.049 J		0.080 J		0.092 J	
Trichloroethene	ppbv	0.036 U	0.15 J		0.065 J		0.18 U		0.036 U		0.036 U		0.036 U	
Vinyl chloride	ppbv	0.071 U	0.071 U		0.071 U		0.36 U		0.071 U		0.071 U		0.071 U	

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

**Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24
Sample ID:	SS-38443-010712-JC-028	OA-38443-031012-JC-130	OA-38443-081112-GL-091	OA-38443-081112-GL-092	OA-38443-091113-GL-006	OA-38443-020714-JT-007	OA-38443-120514-GL-009
Sample Date:	1/7/2012	3/10/2012	8/11/2012	8/11/2012	9/11/2013	2/7/2014	12/5/2014
Parameters	Units			Duplicate			
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	0.035 U	0.026 U	0.026 U	0.027 U	0.026 U	0.026 U
Benzene	ppbv	0.16 J	0.14 J	0.071 J	0.065 J	0.25	0.36
Chloroform (Trichloromethane)	ppbv	0.031 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.014 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	0.027 J	0.068 U	0.068 U	0.24	0.070 J	0.14 J
m&p-Xylenes	ppbv	0.059 J	0.12 U	0.12 U	0.20	0.22	0.43
Naphthalene	ppbv	0.086 U	0.090 UJ	0.090 UJ	0.10 J	0.090 U	0.090 U
o-Xylene	ppbv	0.022 U	0.061 U	0.061 U	0.35	0.084 J	0.16 J
Tetrachloroethene	ppbv	0.011 U	0.060 J	0.040 U	0.041 U	0.040 U	0.077 J
Trichloroethene	ppbv	0.030 U	0.036 U	0.036 U	0.037 U	0.036 U	0.036 U
Vinyl chloride	ppbv	0.029 U	0.071 U	0.071 U	0.073 U	0.071 U	0.071 U

Notes:

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UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	OA-24	OA-24	OA-24	OA-24	OA-24-2015	OA-24-EP6	SS-24-A
Sample ID:	OA-38443-021116-GL-005	OA-38443-022217-JC-004	OA-38443-032218-GL-004	OA-38443-030119-JC-006	OA-38443-022015-GL-032	OA-38443-071615-6L-031	SS-38443-010712-JC-035
Sample Date:	2/11/2016	2/22/2017	3/22/2018	3/1/2019	2/20/2015	7/16/2015	1/7/2012
Parameters	Units						
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 UJ	0.026 U	0.18 U
Benzene	ppbv	0.33	0.25	0.18 J	0.26	0.42 J	0.090 U
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.038 U	0.038 UJ	0.038 U	0.16 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 UJ	0.060 U	0.57 J
Ethylbenzene	ppbv	0.068 U	0.079 J	0.068 U	0.068 U	0.11 J	0.068 U
m&p-Xylenes	ppbv	0.18 J	0.28	0.12 U	0.18 J	0.34 J	0.19 J
Naphthalene	ppbv	0.090 U	0.090 UJ	0.090 U	0.090 U	0.095 J	0.090 U
o-Xylene	ppbv	0.068 J	0.11 J	0.061 U	0.068 J	0.13 J	0.074 J
Tetrachloroethene	ppbv	0.040 U	0.087 J	0.040 U	0.040 U	0.040 UJ	0.040 U
Trichloroethene	ppbv	0.036 U	0.036 U	0.036 U	0.036 U	0.036 UJ	0.036 U
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	0.15 U

Notes:

J - Estimated concentration.

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- - Not applicable.

 - concentration is greater than specified criteria

Table 2

Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	SS-24-A	SS-24-A	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B
Sample ID:	SS-38443-031012-JC-141	SS-38443-081112-GL-083	SS-38443-010712-JC-041	SS-38443-031012-JC-143	SS-38443-081112-GL-085	SS-38443-091113-GL-001	SS-38443-091113-GL-002
Sample Date:	3/10/2012	8/11/2012	1/7/2012	3/10/2012	8/11/2012	9/11/2013	9/11/2013
Parameters	Units						Duplicate
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	0.052 U	0.026 U	0.12 U	0.026 U	0.026 U	0.052 U
Benzene	ppbv	0.11 U	0.099 J	0.063 U	0.056 U	0.11 U	0.11 U
Chloroform (Trichloromethane)	ppbv	0.076 U	0.090 J	0.11 U	0.070 J	0.075 J	0.076 U
cis-1,2-Dichloroethene	ppbv	0.53	0.85	0.049 U	0.093 J	0.060 U	0.12 U
Ethylbenzene	ppbv	0.14 U	0.68	0.24 J	0.068 U	0.068 U	0.14 U
m&p-Xylenes	ppbv	0.24 U	2.5	0.41 J	0.12 U	0.18 J	0.24 U
Naphthalene	ppbv	0.18 UJ	0.090 UJ	0.87 J	0.090 UJ	0.090 UJ	0.18 U
o-Xylene	ppbv	0.12 U	1.4	0.16 J	0.061 U	0.12 J	0.12 U
Tetrachloroethene	ppbv	30	39	90	73	130	29
Trichloroethene	ppbv	7.7	10	37 ^a	30 ^a	48 ^a	6.5
Vinyl chloride	ppbv	0.14 U	0.071 U	0.10 U	0.071 U	0.071 U	0.14 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

**Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	SS-24-B		SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-C
Sample ID:	SS-38443-120514-GL-001		SS-38443-120514-GL-002	SDD-SS-24B-0215	SS-38443-022015-GL-029	SDD-SS-24B-0715	SS-38443-071615-6L-032	SS-38443-021116-GL-006	SS-38443-010712-JC-039
Sample Date:	12/5/2014		12/5/2014	2/20/2015	2/20/2015	7/16/2015	7/16/2015	2/11/2016	1/7/2012
			Duplicate						
Parameters	Units								
Volatile Organic Compounds									
1,1-Dichloroethane	ppbv	0.10 U	0.10 U	0.58 U	0.026 U	0.34 U	0.052 U	0.052 U	0.035 U
Benzene	ppbv	0.22 U	0.22 U	0.29 U	0.087 J	0.44 U	0.11 U	0.11 U	0.022 J
Chloroform (Trichloromethane)	ppbv	0.15 U	0.15 U	0.28 U	0.038 U	0.28 U	0.076 U	0.076 U	0.031 U
cis-1,2-Dichloroethene	ppbv	0.24 U	0.24 U	1.4 U	0.060 U	0.35 U	0.12 U	0.12 U	0.014 U
Ethylbenzene	ppbv	0.27 U	0.27 U	0.57 U	0.18 J	0.32 U	0.14 U	0.14 U	0.022 U
m&p-Xylenes	ppbv	0.48 U	0.48 U	1.2 U	0.83 J	0.69	0.24 U	0.24 U	0.062 J
Naphthalene	ppbv	0.36 U	0.36 U	1.4 U	0.32 J	0.27 U	0.18 U	0.18 U	0.086 UJ
o-Xylene	ppbv	0.24 U	0.24 U	1.4 U	0.33	0.32 U	0.12 U	0.12 U	0.022 U
Tetrachloroethene	ppbv	59	49	78.3	57	40	34	82	15
Trichloroethene	ppbv	22 ^a	21 ^a	33.7 ^a	23 ^a	14	9.8	26 ^a	0.99
Vinyl chloride	ppbv	0.28 U	0.28 U	0.29 U	0.071 U	0.54 U	0.14 U	0.14 U	0.029 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

**Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019**

Sample Location:	SS-24-C	SS-24-C	SS-24-C	SS-24-C	SS-24-D	SS-24-D	SS-24-D
Sample ID:	SS-38443-010712-JC-040	SS-38443-031012-JC-146	SS-38443-081112-GL-086	SS-38443-020714-JT-001	SS-38443-010712-JC-038	SS-38443-031012-JC-149	SS-38443-081112-GL-088
Sample Date:	1/7/2012	3/10/2012	8/11/2012	2/7/2014	1/7/2012	3/10/2012	8/11/2012
Parameters	Units	Duplicate					
Volatile Organic Compounds							
1,1-Dichloroethane	ppbv	0.035 U	0.026 U	0.026 U	0.35 U	0.026 U	0.026 U
Benzene	ppbv	0.049 J	0.056 U	0.056 U	0.20	0.18 U	0.056 U
Chloroform (Trichloromethane)	ppbv	0.031 U	0.038 U	0.038 U	0.039 J	0.31 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.014 U	0.060 U	0.060 U	0.060 U	0.14 U	0.060 U
Ethylbenzene	ppbv	0.16 J	0.068 U	0.068 U	0.068 U	0.45 J	0.068 U
m&p-Xylenes	ppbv	0.39 J	0.12 U	0.22	0.13 J	1.6 J	0.34
Naphthalene	ppbv	0.086 UJ	0.090 UJ	0.090 UJ	0.090 U	0.86 U	0.090 UJ
o-Xylene	ppbv	0.11 J	0.061 U	0.11 J	0.061 U	0.53 J	0.11 J
Tetrachloroethene	ppbv	15	15	12	13	4.1	4.7
Trichloroethene	ppbv	1.1	0.87	0.63	1.1	0.30 U	0.036 U
Vinyl chloride	ppbv	0.029 U	0.071 U	0.071 U	0.071 U	0.29 U	0.071 U

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

 - concentration is greater than specified criteria

Table 2

Summary Of Building 24 - Globe Equipment Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2019

Sample Location:	SS-24-E	SS-24-E	SS-24-E	SS-24-F	SS-24-F	SS-24-F
Sample ID:	SS-38443-010712-JC-036	SS-38443-031012-JC-150	SS-38443-081112-GL-090	SS-38443-010712-JC-037	SS-38443-031012-JC-152	SS-38443-081112-GL-093
Sample Date:	1/7/2012	3/10/2012	8/11/2012	1/7/2012	3/10/2012	8/11/2012

Parameters	Units					
Volatile Organic Compounds						
1,1-Dichloroethane	ppbv	0.070 U	0.026 U	0.026 U	0.035 U	0.026 U
Benzene	ppbv	0.036 U	0.056 U	0.16 J	0.019 J	0.060 J
Chloroform (Trichloromethane)	ppbv	0.062 U	0.038 U	0.038 U	0.031 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.028 U	0.060 U	0.086 J	0.014 U	0.065 J
Ethylbenzene	ppbv	0.044 U	0.068 U	1.4	0.034 J	0.073 J
m&p-Xylenes	ppbv	0.096 U	0.12 U	4.1	0.069 J	0.24
Naphthalene	ppbv	0.17 U	0.090 UJ	0.090 UJ	0.086 U	0.090 UJ
o-Xylene	ppbv	0.044 U	0.061 U	1.1	0.022 U	0.18 J
Tetrachloroethene	ppbv	5.4	7.3	14	0.73	0.63
Trichloroethene	ppbv	0.060 U	0.036 U	1.2	0.11 J	0.036 U
Vinyl chloride	ppbv	0.058 U	0.071 U	0.071 U	0.029 U	0.071 U

Notes:

J - Estimated concentration.

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- - Not applicable.

 - concentration is greater than specified criteria